FCC 47 CFR PART 15 SUBPART C
TEST REPORT

FOR

Wireless solar charger

Model: LET134A

Trade Mark: N/A

Issued to

Lacoste Operations

Issued by

WH Technology Corp.

EMC Test Site	**Xizhi Office and Lab**	**7F., No.262, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)**
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1. GENERAL INFORMATION

Applicant	:	**Lacoste Operations**
Address	:	**23, Rue de Provence, 75009 Paris, FRANCE**
Manufacturer	:	**De Rigueur Lab**
Address	:	**36, Quai Fulchiron, 69005 Lyon, FRANCE**
EUT	:	**Wireless solar charger**
Model Name	:	**LET134A**
Model Differences	:	**N/A**

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC part 15 subpart C

Receipt Date: 10/20/2018 Final Test Date: 10/31/2018

Reviewed by:

Tested by:

Engineer

Manager

(Date) (Signature) Designation Number: TW2954

2. REPORT OF MEASUREMENTS AND EXAMINATIONS

2.1 LIST OF MEASUREMENTS AND EXAMINATIONS

FCC Rule	Description of Test	Result
15.207	. Conducted Emission	Pass
15.205 15.209	. Radiated Emission	Pass
2.1049	. 20 dB Bandwidth	Pass

2.2 DESCRIPTION OF THE TESTED SAMPLES

EUT Name	:	Wireless solar charger
Model Number	::	LET134A
FCC ID Number		2ARN4LET134A
Receipt Date	:	10/31/2018
Output Power	:	Battery: DC 3.7V, 2000mAh Input: DC 5V/2A Output: DC 5V/1A
Operate Frequency	:	115kHz~205kHz
Antenna Type	:	Coil Antenna

3. TEST METHODOLOGY

All testing as described bellowed were performed in accordance with ANSI C63.10:2013 and FCC CFR 47 Part 15 Subpart C.

3.1 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.10:2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is a placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

3.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(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
10.495 - 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	2655 - 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)
13.36 - 13.41			

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2 Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.3 DESCRIPTION OF TEST MODES

The EUT was tested under following modes:

Modes:

1. **Continuous transmitting with full load**
2. **USB charging + Continuous transmitting with full load**

Channels:

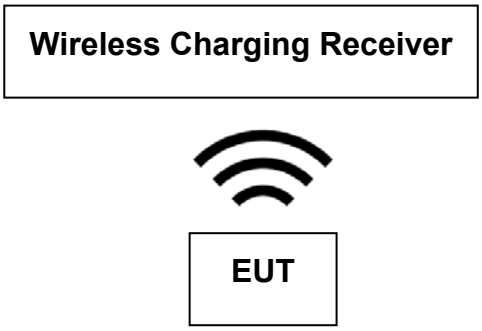
1. **127kHz**

3.4 DESCRIPTION OF THE SUPPORT EQUIPMENTS

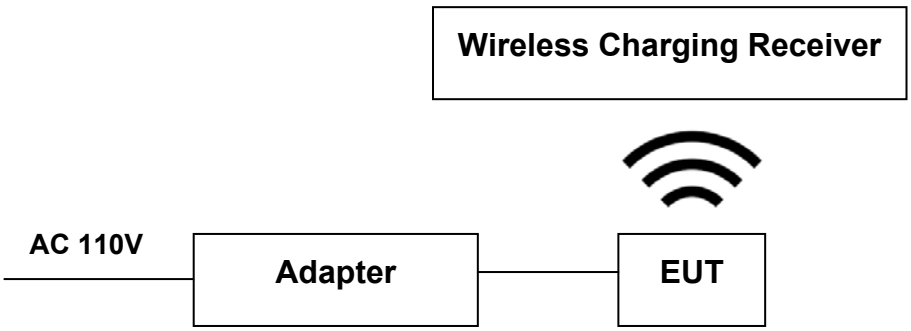
Setup Diagram

See test photographs attached in appendix 1 for the actual connections between EUT and support equipment.

Mode 1



Mode 2



Support Equipment

Peripherals Devices:

OUTSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	Adapter	HW-059200C HQ	NA	N/A	N/A	N/A	N/A
2.	USB cable	N/A	N/A	N/A	N/A	1.0m	N/A
3.	Wireless Charger Receiver	N/A	N/A	N/A	N/A	N/A	N/A
EUT							
1.	Wireless solar charger	LET134A	N/A	N/A	N/A	N/A	N/A

Note: All the above equipment /cable were placed in worse case position to maximize emission signals during emission test

Grounding: Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.

4. TEST AND MEASUREMENT EQUIPMENT

4.1 CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2 EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

List of Test and Measurement Equipment

● CALIBRATION INTERVAL OF INSTRUMENTS LISTED ABOVE IS ONE YEAR

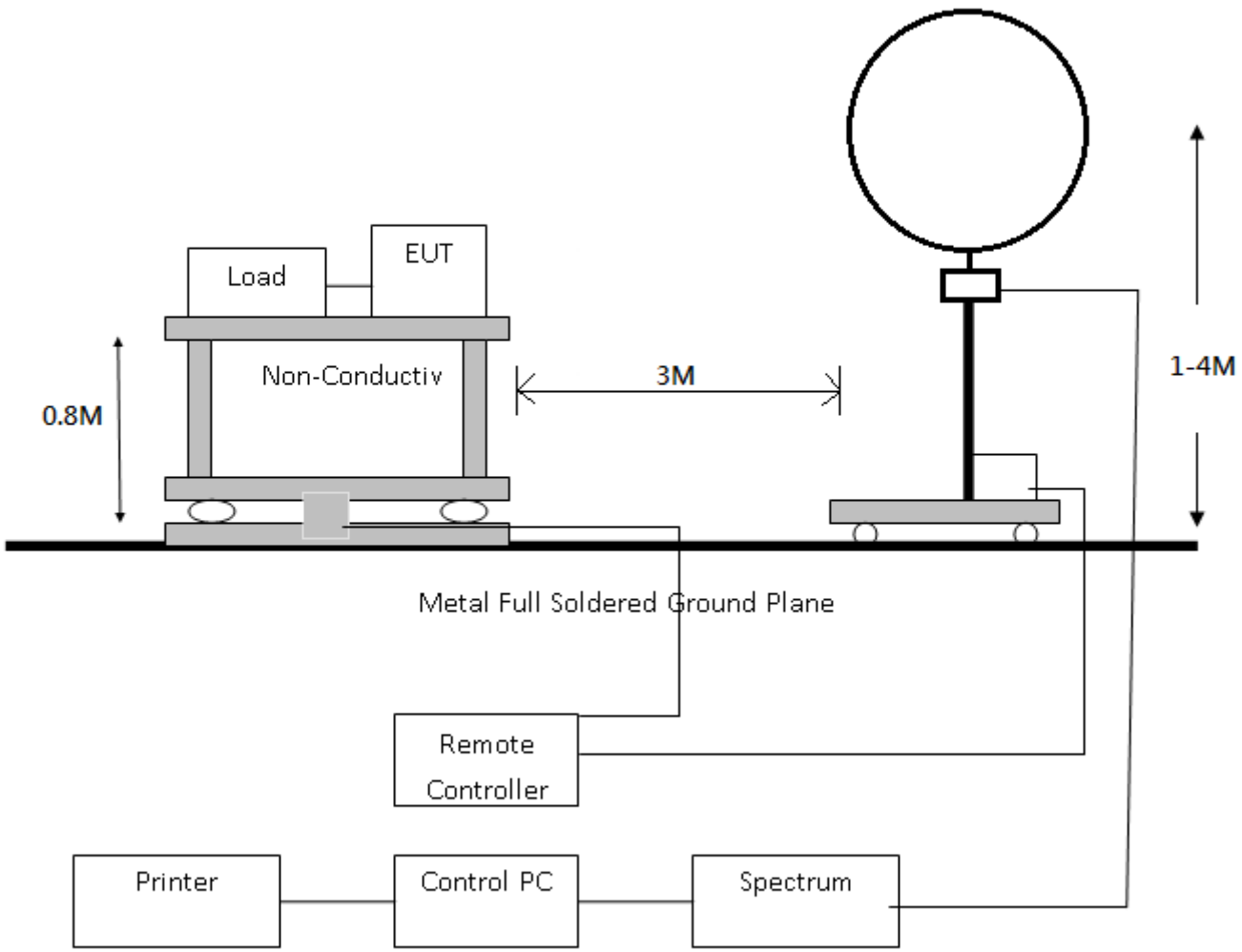
Test Site	Instrument	Manufacturer	Model No.	S/N	Next Cal. Date
Conduction	Spectrum (9K--3GHz)	R&S	FSP3	833387/010	2019/09/20
	EMI Receiver	R&S	ESHS10	830223/008	2019/05/22
	LISN	Rolf Heine Hochfrequenztechnik	NNB-2/16z	98062	2019/05/25
	ISN	Schwarzbeck	8-Wire ISN CAT5	CAT5-8158-0094	2019/09/21
	RF Cable	N/A	N/A	EMI-3	2019/10/19
Radiation	Bilog antenna(30M-1G)	ETC	MCTD2786B	BLB16M04004/JB-5-004	2019/05/03
	Double Ridged Guide Horn antenna(1G-18G)	ETC	MCTD 1209	DRH15N02009	2018/11/23
	Horn antenna (18G-26G)	com-power	AH-826	81000	2019/08/15
	Pre amplifier (30M-1G)	EMC INSTRUMENT	EMC9135	980334	2019/05/04
	Microwave Preamplifier (1G-18G)	EMC INSTRUMENT	EMC051845	980108&AT-18001	2019/10/23
	Pre amplifier (18G~26G)	MITEQ	JS4-18002600-30-5A	808329	2019/08/10
	EMI Test Receiver	R&S	ESVS30 (20M-1000MHz)	863342/012	2018/11/28
	RF Cable (open site)	EMCI	N male on end of both sides (EMI4)	30m	2019/10/19
	RF CABLE (1~26.5G)	HARBOUT INDUSTRIES	LL142MI(4M+4M)	NA	2019/03/08
	RF CABLE (1~26.5G)	HARBOUR INDUSTRIES	LL142MI(7M)	NA	2019/08/11
	Spectrum (9K--7GHz)	R&S	FSP7	830180/006	2019/02/25
	Spectrum (9K--40GHz)	AGILENT	8564EC	4046A0032	2019/01/03
Software	e3	AUDIX	N/A	N/A	N/A

●

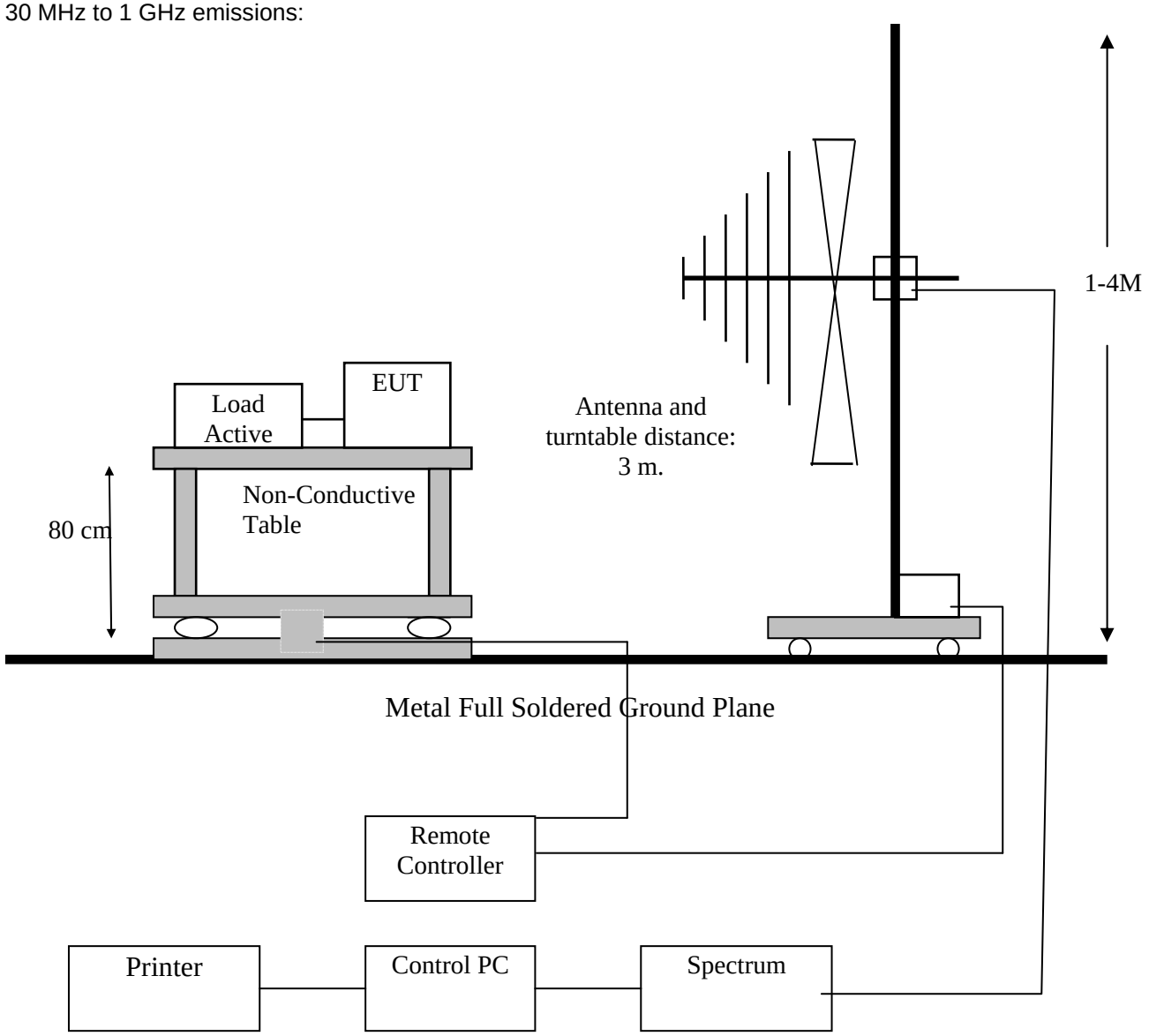
5. SECTION 15.209 REQUIREMENTS (GENERAL RADIATED EMISSION)

5.1 TEST SETUP

9 kHz to 30 MHz emissions:



30 MHz to 1 GHz emissions:



5.2 LIMIT

The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
1.705-30	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500*	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz,*
174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

In the above emission table, the tighter limit applies at the band edges.

Frequency of Emission (MHz)	Field Strength		Measurement Distance (meters)
	μV/m	dBμV/m	
0.009-0.49	2400/F(kHz)	67.6-20logf(kHz)	300
0.49-1.705	24000/F(kHz)	87.6-20logf(kHz)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

5.3 TEST PROCEDURE

1. The EUT was placed on a turntable, which was 0.8m above ground plane.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT was set at 3m away from the receiving antenna, which was varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was maximized by changing the polarization of receiving antenna, both horizontal and vertical.
6. Repeated above procedures until the measurements for all frequencies are completed.

5.4 RESULT: PASSED

5.5 TEST DATA:

All frequencies not described in this test report and within the range of the general radiated emission limits are not detectable significantly. The table as below is representing worst emissions found.

9KHz ~ 150KHz

Mode 1

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0097	96.40	-17.73	78.67	147.87	-69.20	peak
2	0.0097	85.69	-17.73	67.96	127.87	-59.91	AVG
3	0.1270	54.72	21.78	76.50	125.53	-49.03	peak
4	0.1270	44.35	21.78	66.13	105.53	-39.40	AVG
5	0.1402	28.48	21.91	50.39	125.31	-74.92	peak
6	0.1402	20.36	21.91	42.27	105.31	-63.04	AVG

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0090	99.86	-17.49	82.37	148.52	-66.15	peak
2	0.0090	90.04	-17.49	72.55	128.52	-55.97	AVG
3	0.1270	60.95	21.78	82.73	125.53	-42.80	peak
4	0.1270	51.26	21.78	73.04	105.53	-32.49	AVG
5	0.1407	31.07	21.91	52.98	125.28	-72.30	peak
6	0.1407	20.65	21.91	42.56	105.28	-62.72	AVG

Mode 2

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0090	102.82	-17.49	85.33	148.52	-63.19	peak
2	0.0090	92.64	-17.49	75.15	128.52	-53.37	AVG
3	0.0908	32.53	21.95	54.48	128.44	-73.96	peak
4	0.0908	21.84	21.95	43.79	108.44	-64.65	AVG
5	0.1270	54.83	21.78	76.61	125.53	-48.92	peak
6	0.1270	43.97	21.78	65.75	105.53	-39.78	AVG

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0090	99.85	-17.49	82.36	148.52	-66.16	peak
2	0.0090	89.35	-17.49	71.86	128.52	-56.66	AVG
3	0.1270	58.25	21.78	80.03	125.53	-45.50	peak
4	0.1270	47.64	21.78	69.42	105.53	-36.11	AVG
5	0.1470	30.39	21.95	52.34	124.87	-72.53	peak
6	0.1475	20.28	21.96	42.24	104.87	-62.63	AVG

150KHz ~ 30MHz

Mode 1

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.3266	44.02	22.78	66.80	117.32	-50.52	peak
2	0.3266	33.54	22.78	56.32	97.32	-41.00	AVG
3	0.5463	36.92	21.82	58.74	92.86	-34.12	peak
4	0.5463	26.84	21.82	48.66	72.86	-24.20	AVG
5	1.6363	40.87	21.51	62.38	83.33	-20.95	peak
6	1.6363	31.05	21.51	52.56	63.33	-10.77	AVG

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.3286	44.08	22.77	66.85	117.27	-50.42	peak
2	0.3286	36.05	22.77	58.82	97.27	-38.45	AVG
3	0.5493	36.70	21.82	58.52	92.81	-34.29	peak
4	0.5493	26.44	21.82	48.26	72.81	-24.55	AVG
5	1.7903	42.20	21.36	63.56	89.54	-25.98	peak
6	1.7903	32.14	21.36	53.50	69.54	-16.04	AVG

Mode 2

Horizontal

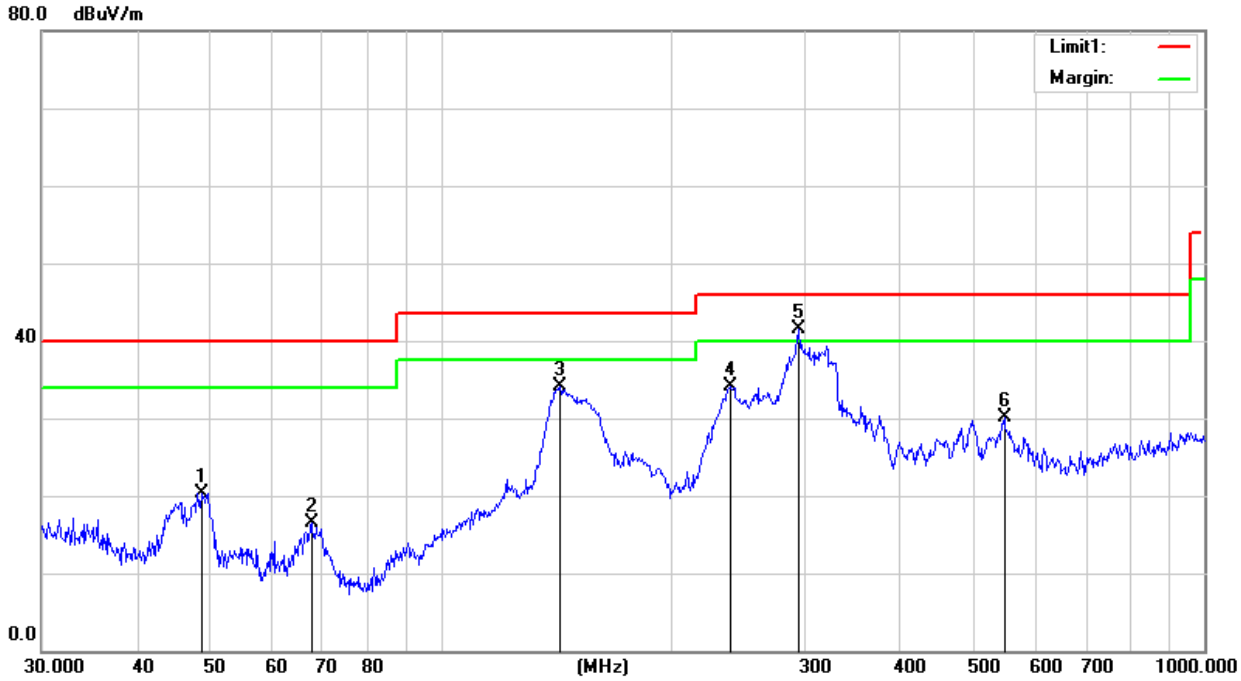
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.3301	37.53	22.76	60.29	117.23	-56.94	peak
2	0.3301	28.04	22.76	50.80	97.23	-46.43	AVG
3	0.4103	38.82	22.33	61.15	115.34	-54.19	peak
4	0.4103	29.31	22.33	51.64	95.34	-43.70	AVG
5	1.8000	41.99	21.35	63.34	89.54	-26.20	peak
6	1.8000	32.06	21.35	53.41	69.54	-16.13	AVG

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1731	49.09	22.17	71.26	122.84	-51.58	peak
2	0.1731	40.95	22.17	63.12	102.84	-39.72	AVG
3	0.3266	37.94	22.78	60.72	117.32	-56.60	peak
4	0.3266	38.26	22.78	61.04	97.32	-36.28	AVG
5	1.7903	41.09	21.36	62.45	89.54	-27.09	peak
6	1.7903	40.95	21.36	62.31	69.54	-7.23	AVG

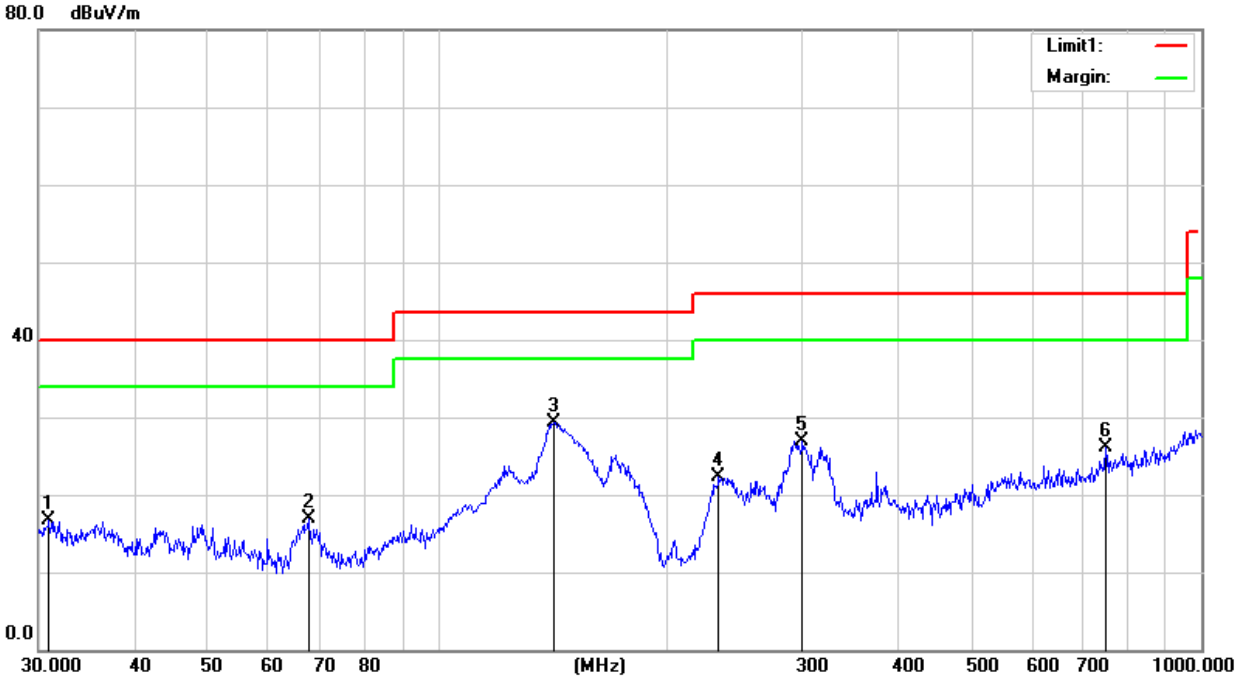
30MHz ~ 1000MHz

Mode 1
Horizontal



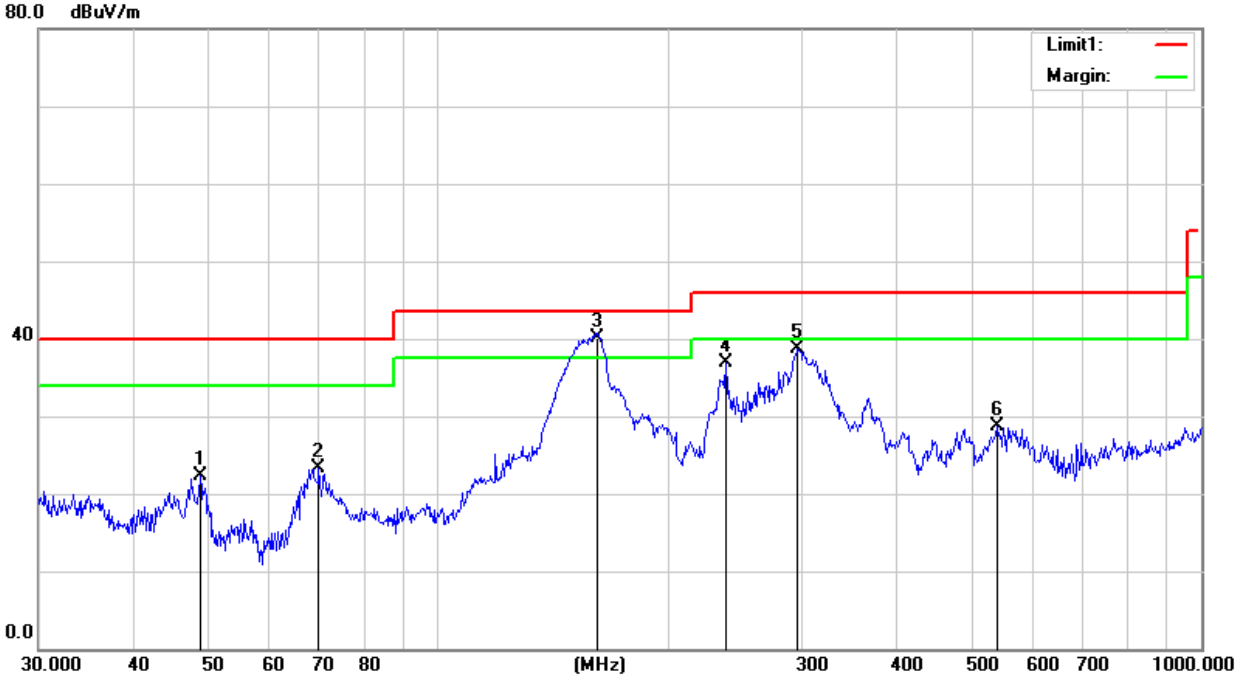
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	48.6720	41.19	-20.80	20.39	40.00	-19.61	QP
2	67.6751	40.70	-24.16	16.54	40.00	-23.46	QP
3	143.3261	51.76	-17.67	34.09	43.50	-9.41	QP
4	239.1473	52.01	-17.82	34.19	46.00	-11.81	QP
5	294.1137	56.57	-15.16	41.41	46.00	-4.59	QP
6	547.0977	36.90	-6.85	30.05	46.00	-15.95	QP

Vertical



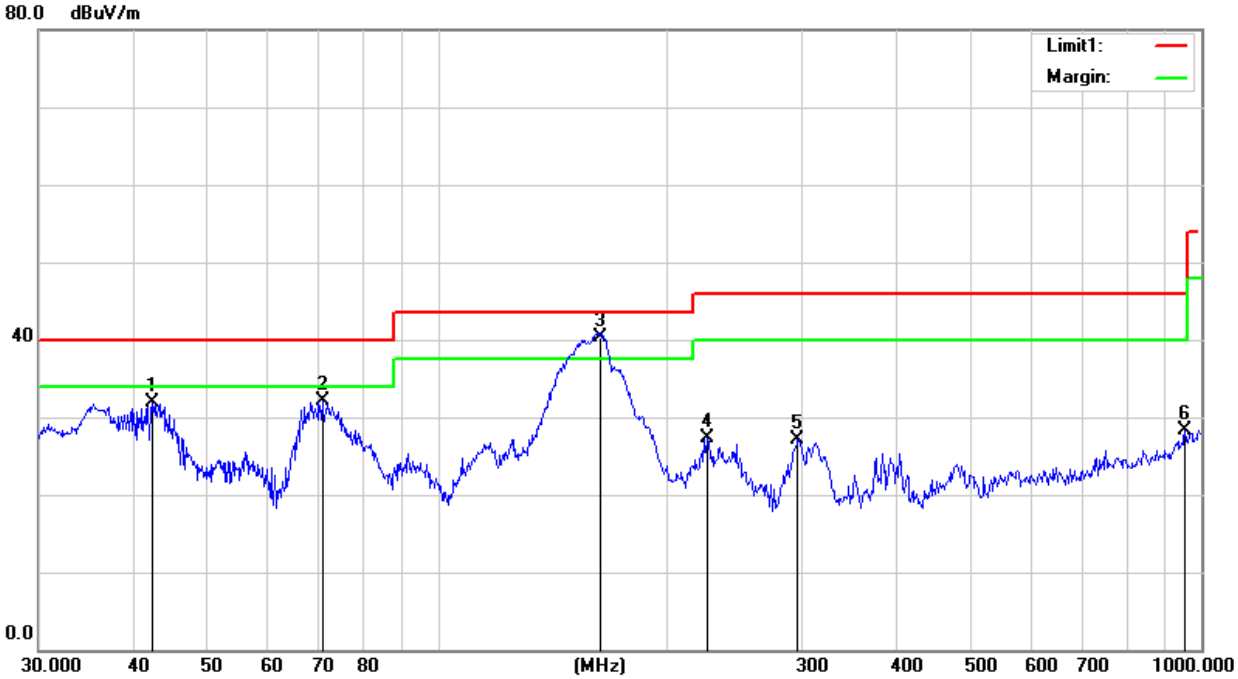
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9618	28.30	-11.68	16.62	40.00	-23.38	QP
2	67.6751	41.09	-24.16	16.93	40.00	-23.07	QP
3	141.8262	46.92	-17.59	29.33	43.50	-14.17	QP
4	233.3487	40.60	-18.24	22.36	46.00	-23.64	QP
5	300.3672	41.81	-14.81	27.00	46.00	-19.00	QP
6	750.1083	29.66	-3.56	26.10	46.00	-19.90	QP

Mode 2
Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	48.8430	43.28	-20.89	22.39	40.00	-17.61	QP
2	69.8450	47.47	-24.10	23.37	40.00	-16.63	QP
3	161.8942	58.73	-18.66	40.07	43.50	-3.43	QP
4	238.3102	54.74	-17.88	36.86	46.00	-9.14	QP
5	296.1836	53.72	-15.05	38.67	46.00	-7.33	QP
6	541.3725	35.60	-6.97	28.63	46.00	-17.37	QP

Vertical



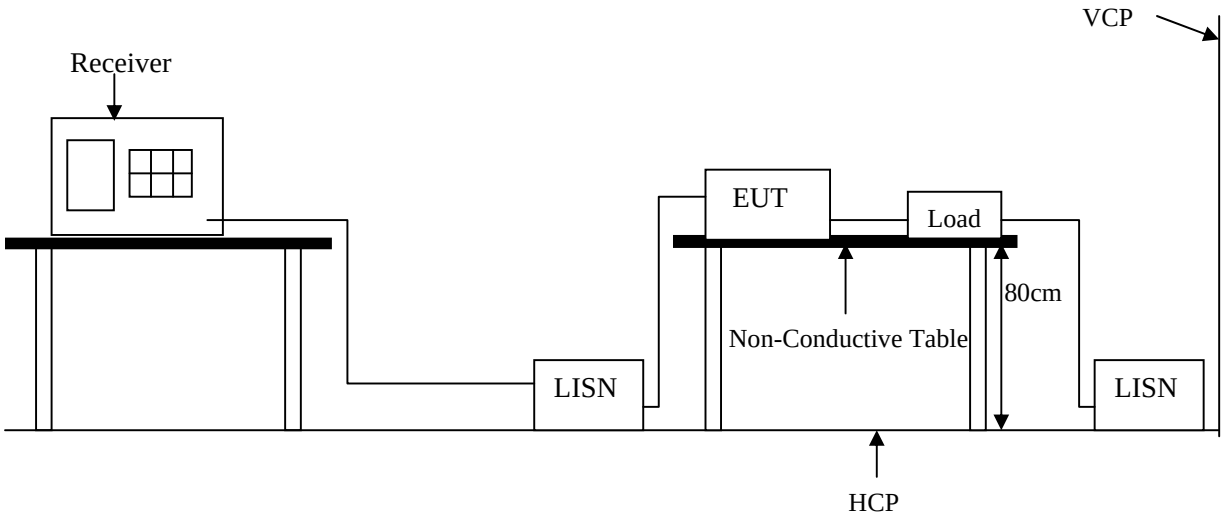
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	42.3022	49.38	-17.52	31.86	40.00	-8.14	QP
2	70.5836	56.14	-24.02	32.12	40.00	-7.88	QP
3	163.5814	59.13	-18.79	40.34	43.50	-3.16	QP
4	225.3080	46.15	-18.77	27.38	46.00	-18.62	QP
5	296.1836	42.16	-15.05	27.11	46.00	-18.89	QP
6	952.0937	28.74	-0.36	28.38	46.00	-17.62	QP

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor : Antenna factor, Cable loss, Pre-Amp, etc.
3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
4. Measurements from 9 kHz to 150 kHz, Peak detector setting: 100 Hz RBW
5. Measurements from 150 kHz to 30MHz, Peak detector setting: 10 kHz RBW
6. Measurements from 30 MHz to 1000 MHz, Peak detector setting: 100 kHz RBW
7. Measurements from 9 kHz to 150 kHz, CISPR Quasi-Peak detector: 200 Hz RBW
8. Measurements from 150 kHz to 30MHz, CISPR Quasi-Peak detector: 9 kHz RBW
9. Measurements from 30 MHz to 1000 MHz, CISPR Quasi-Peak detector: 120 kHz RBW
10. Peak detector measurement data will represent the worst case results.

6. SECTION 15.207 REQUIREMENTS (POWERLINE CONDUCTED EMISSIONS)

6.1 TEST SETUP



6.2 LIMIT

Frequency range (MHz)	CLASS B	
	QP dB(uV)	Average dB(uV)
0.15-0.5	66 - 56 dBuV	56 - 46 dBuV
0.5-5.0	56 dBuV	46 dBuV
5.0-30.0	60 dBuV	50 dBuV

Remark: In the above table, the tighter limit applies at the band edges.

6.3 TEST PROCEDURE

The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). It provides a 50 ohm / 50 μH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm / 50 μH coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photograph.)

Both sides of AC line are checked for the maximum conducted emission interference. In order to find the maximum emissions, the relating positions of equipment and all of the interference cables must be changed according to EN 55022 regulations: The measurement procedure on conducted emission interference.

The resolution bandwidth of the field strength meter is set at 9 KHz.

6.4 TEST SPECIFICATION

According to PART15.207

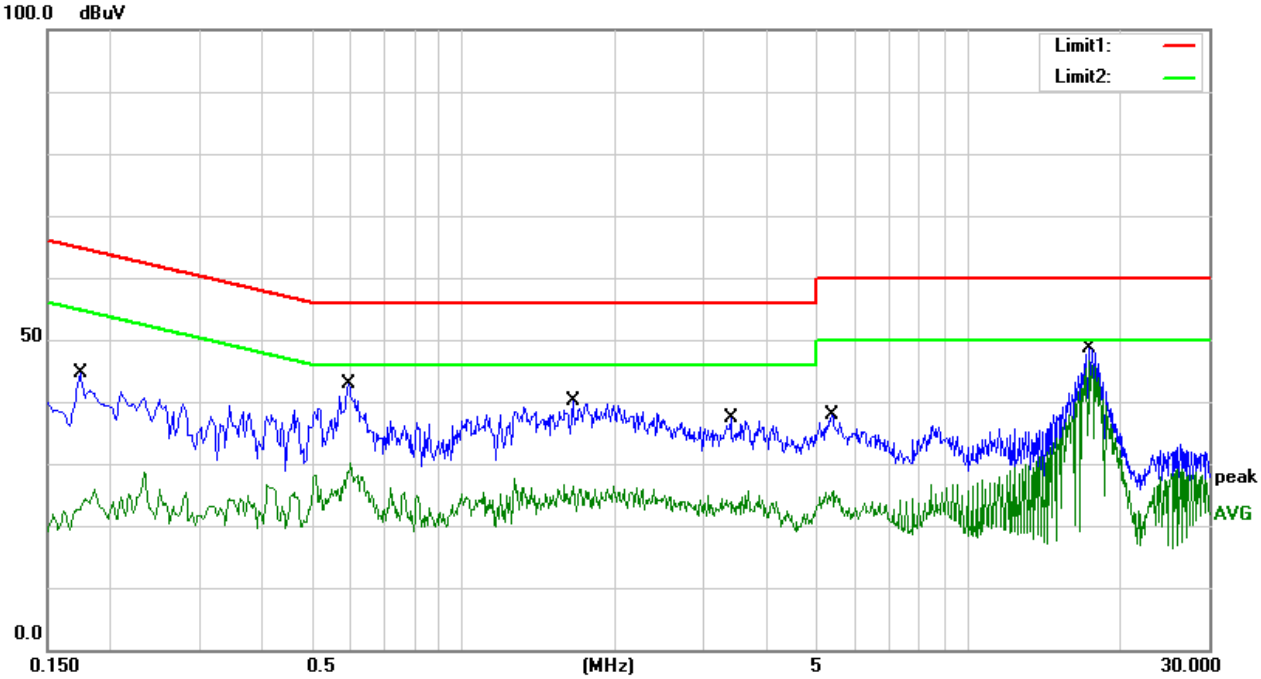
6.5 RESULT:

EMI Receiver/Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range:	150KHz--30MHz
Detector Function:	Quasi-Peak / Average Mode
Resolution Bandwidth:	9KHz

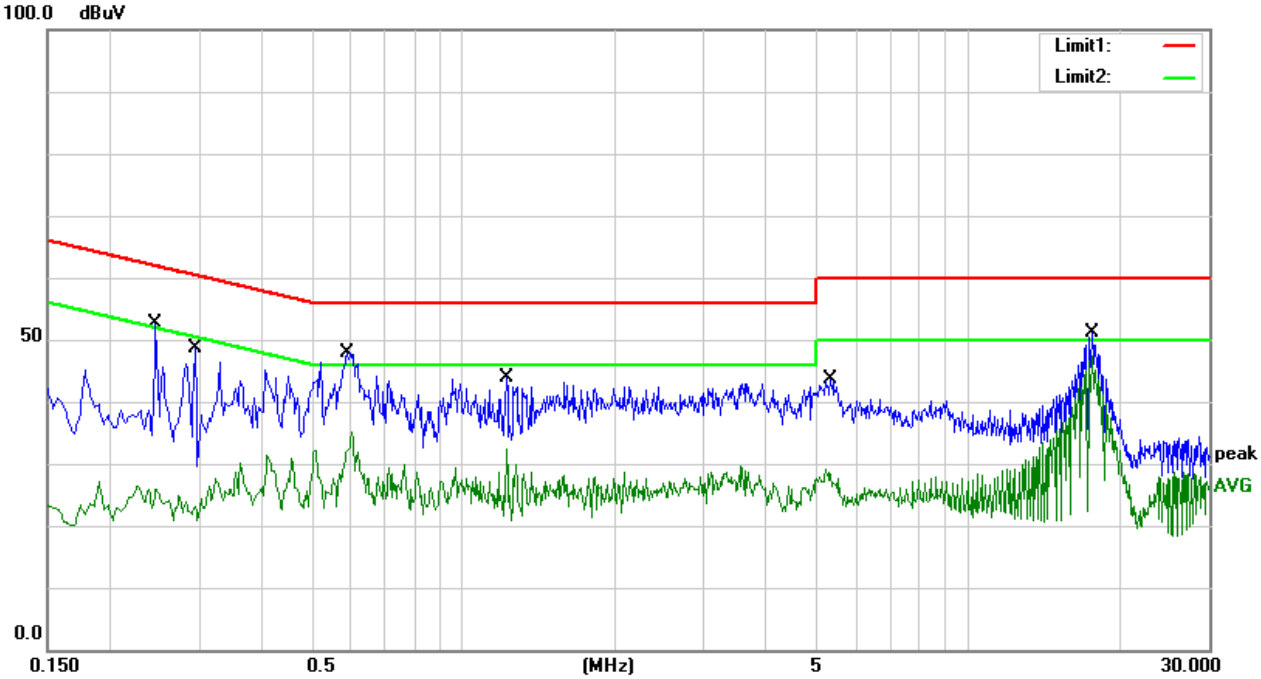
6.6 TEST DATA:

LINE



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	24.51	20.24	44.75	64.77	-20.02	QP
2	0.1740	8.37	20.24	28.61	54.77	-26.16	AVG
3	0.5940	22.53	20.37	42.90	56.00	-13.10	QP
4	0.5940	9.77	20.37	30.14	46.00	-15.86	AVG
5	1.6500	19.97	20.10	40.07	56.00	-15.93	QP
6	1.6500	5.75	20.10	25.85	46.00	-20.15	AVG
7	3.3940	17.32	19.97	37.29	56.00	-18.71	QP
8	3.3940	5.72	19.97	25.69	46.00	-20.31	AVG
9	5.3700	17.98	19.92	37.90	60.00	-22.10	QP
10	5.3700	4.95	19.92	24.87	50.00	-25.13	AVG
11	17.4140	28.70	19.96	48.66	60.00	-11.34	QP
12	17.4140	26.64	19.96	46.60	50.00	-3.40	AVG

NEUTRAL



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
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5	1.6500	19.97	20.10	40.07	56.00	-15.93	QP
6	1.6500	5.75	20.10	25.85	46.00	-20.15	AVG
7	3.3940	17.32	19.97	37.29	56.00	-18.71	QP
8	3.3940	5.72	19.97	25.69	46.00	-20.31	AVG
9	5.3700	17.98	19.92	37.90	60.00	-22.10	QP
10	5.3700	4.95	19.92	24.87	50.00	-25.13	AVG
11	17.4140	28.70	19.96	48.66	60.00	-11.34	QP
12	17.4140	26.64	19.96	46.60	50.00	-3.40	AVG

7. 20 DB BANDWIDTH TEST

7.1 LIMIT

FCC Part 2.1049, Only applicable to report.

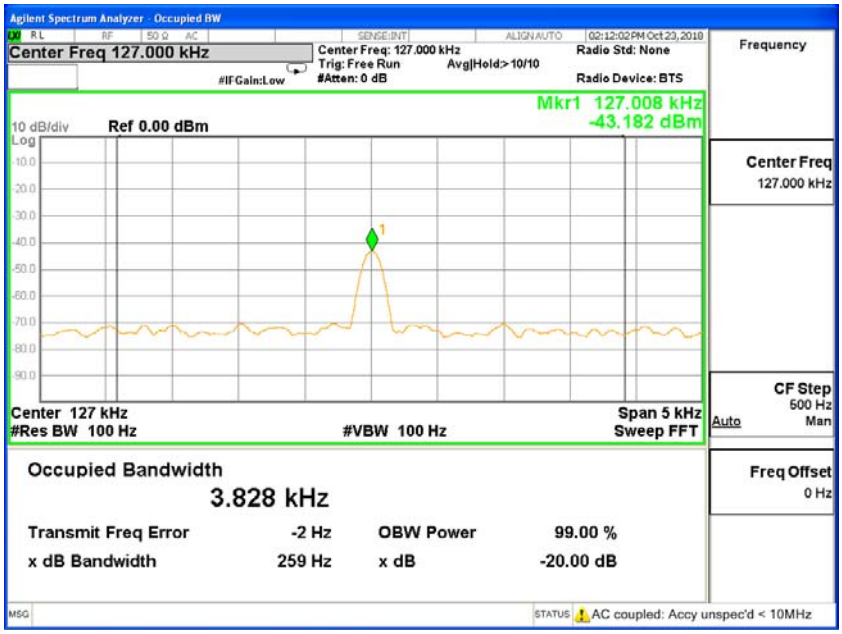
7.2 TEST SETUP

Spectrum Parameter	Setting
Span Frequency	approximately 2 to 3 times the 20 dB bandwidth
RB	greater than 1 % of the 20 dB bandwidth,
VB	equal to the RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

The test program and configuration, Refer to 4.2 and 4.3

7.3 RESULTS

Operating Frequency (kHz)	20 dB Bandwidth (Hz)
127.008	259



APPENDIX 1
PHOTOS OF TEST CONFIGURATION

Photograph –Conducted Emission Test Setup

Mode 2

Photograph – Radiated Emission Test Setup- Below 1G

Mode 1

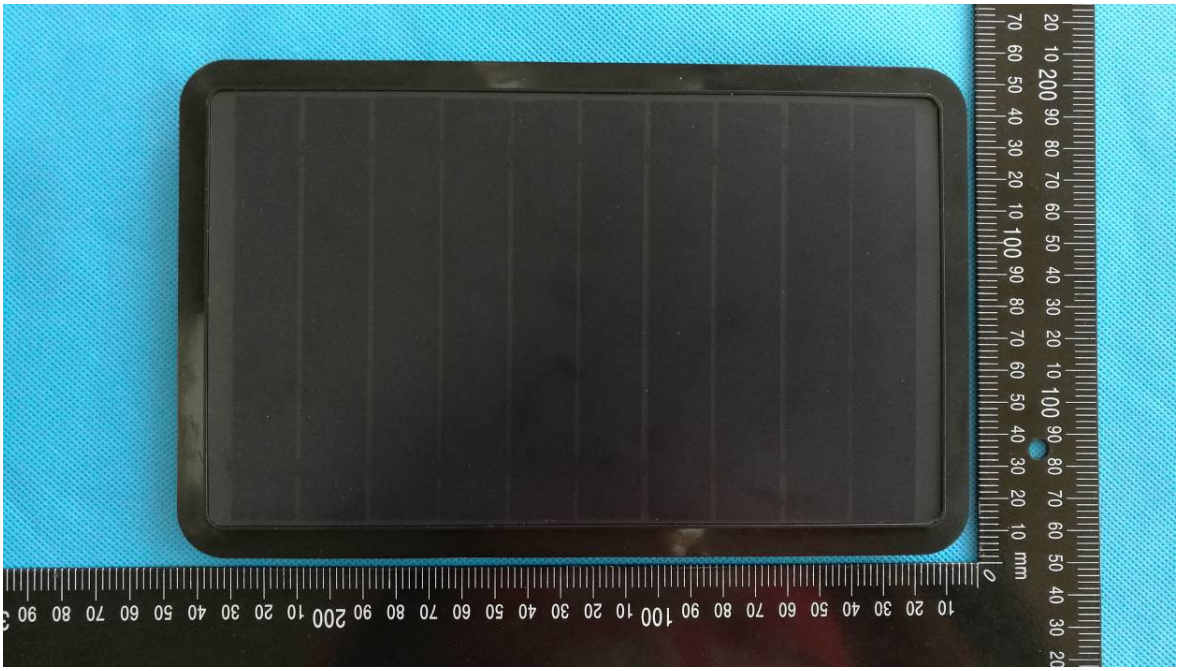
Mode 2

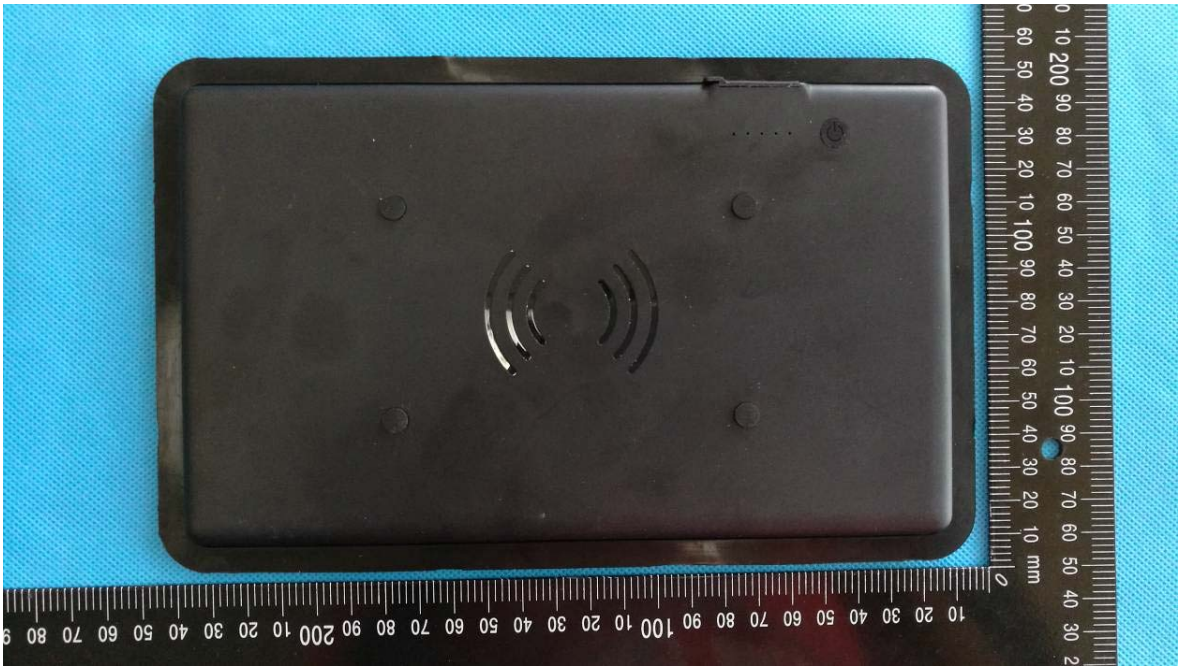
Photograph – Radiated Emission Test Setup- Below 30MHz

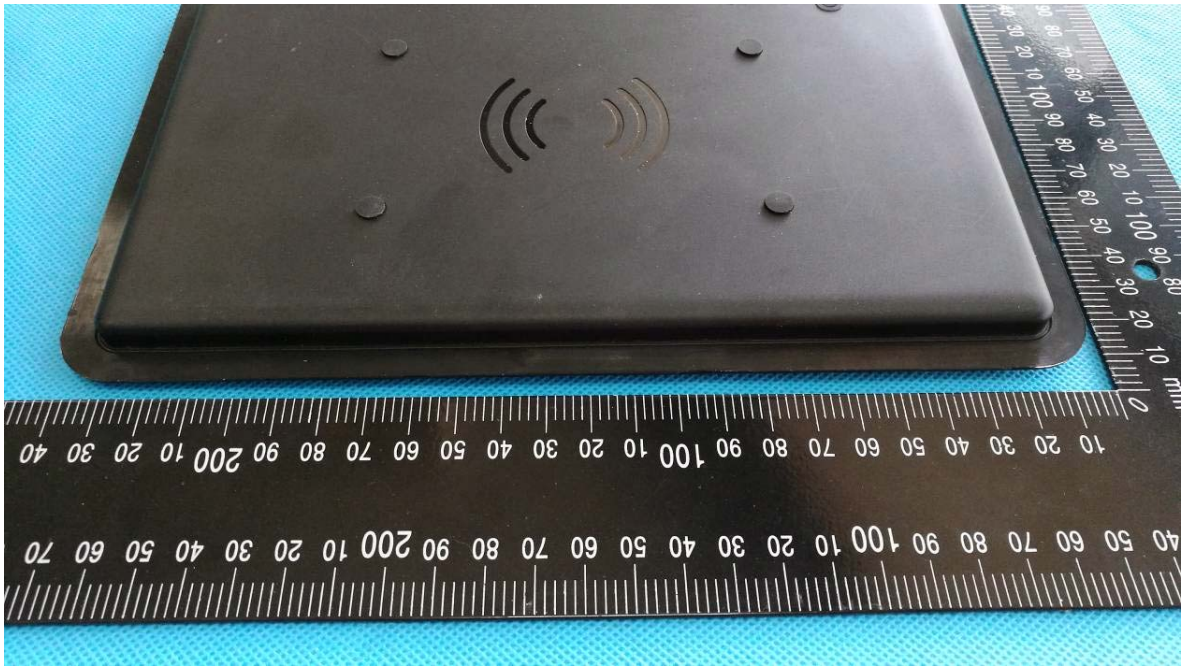
Mode 1

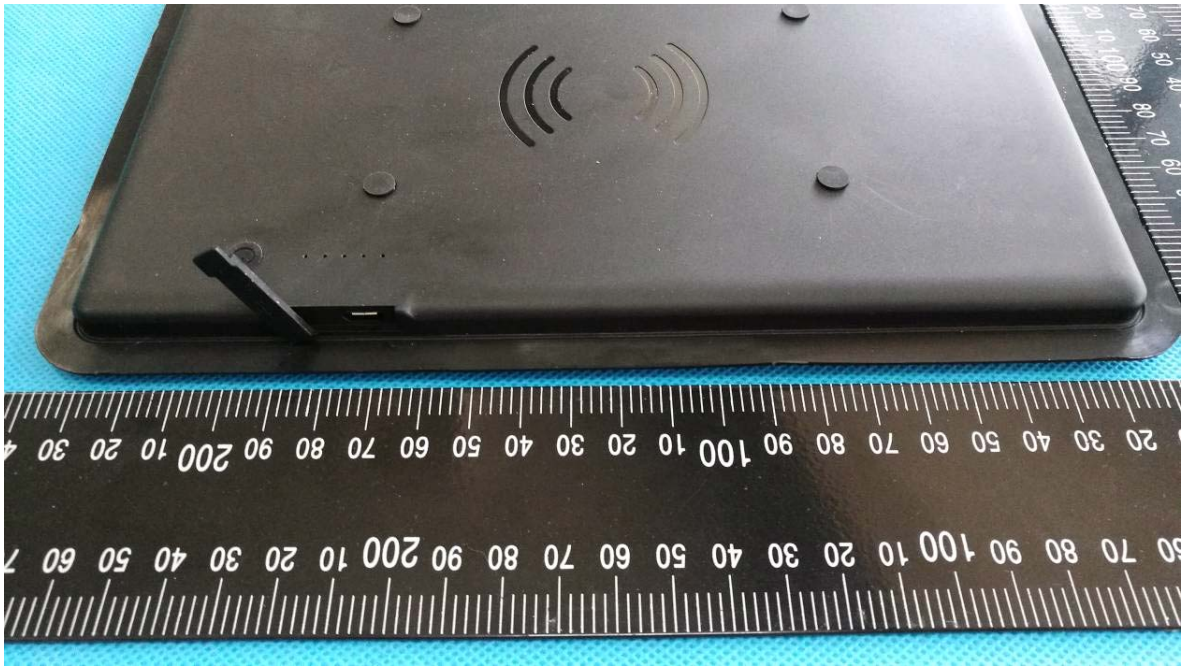
Mode 2

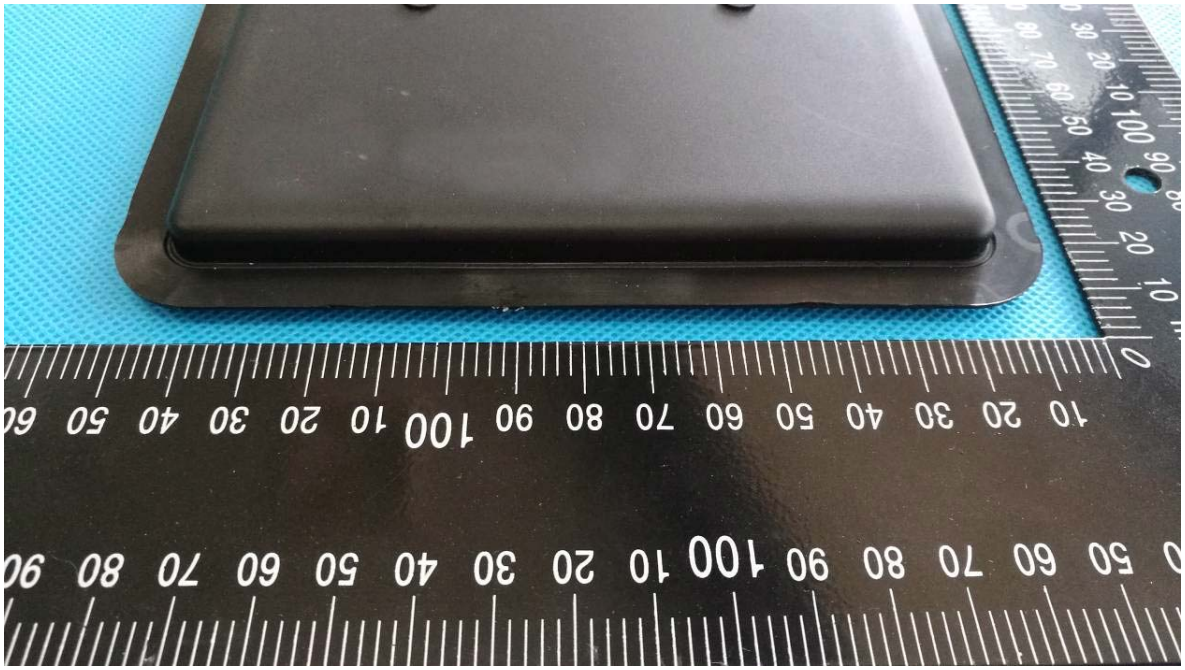
APPENDIX 2
PHOTOS OF EUT

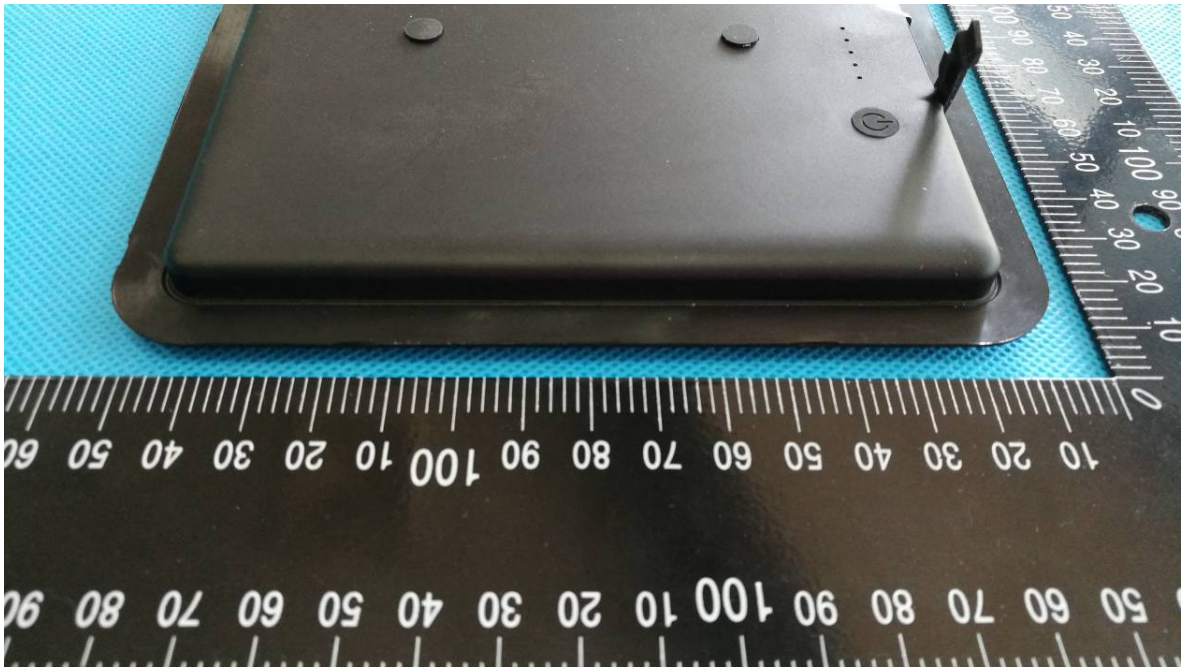
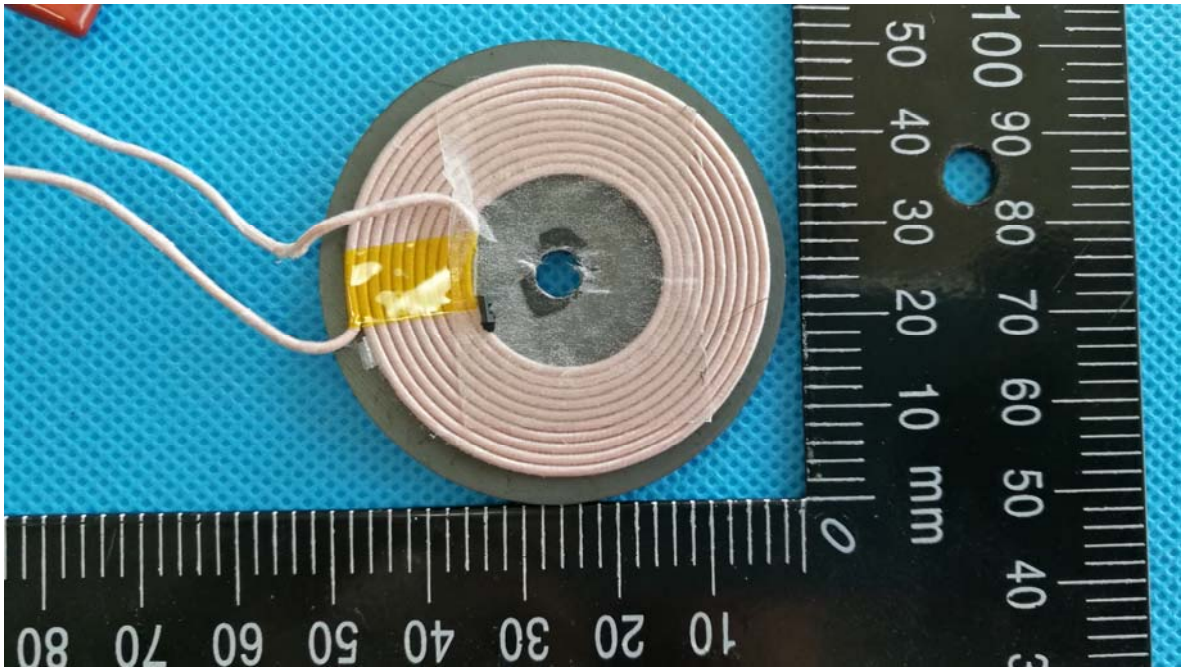
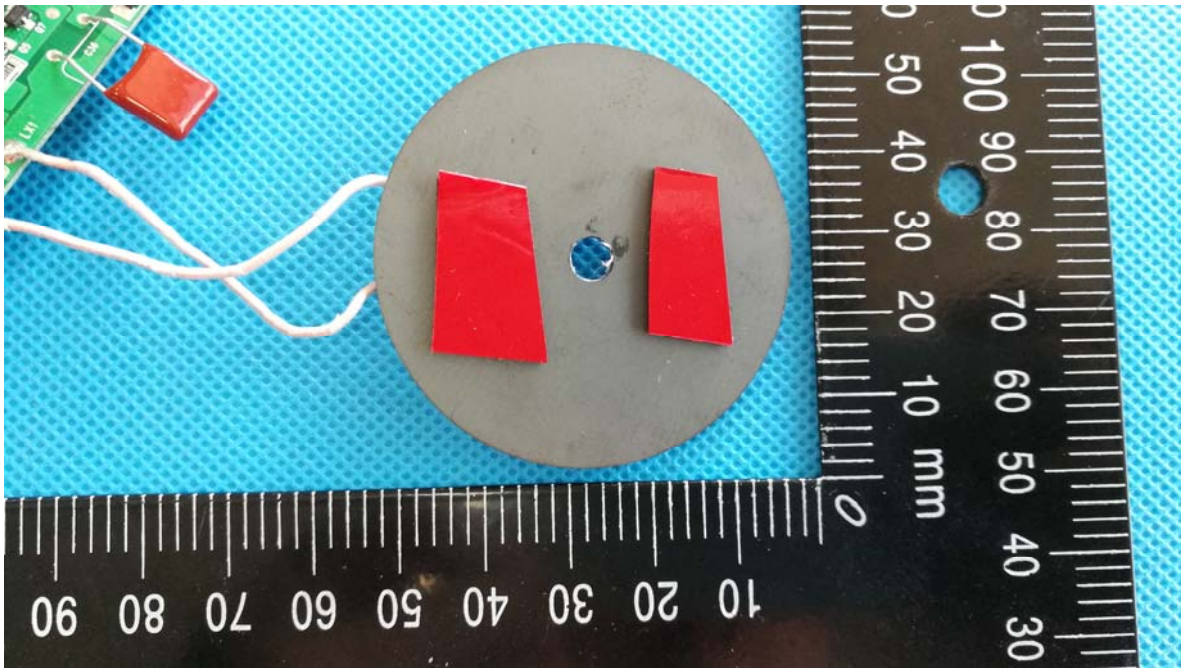
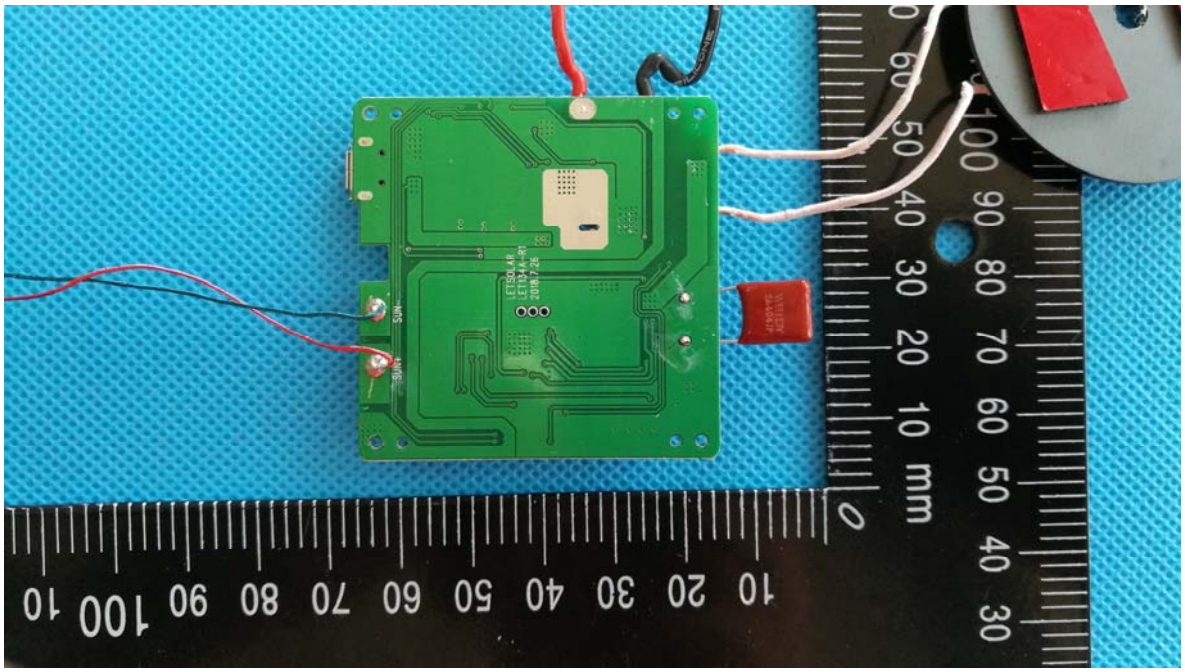
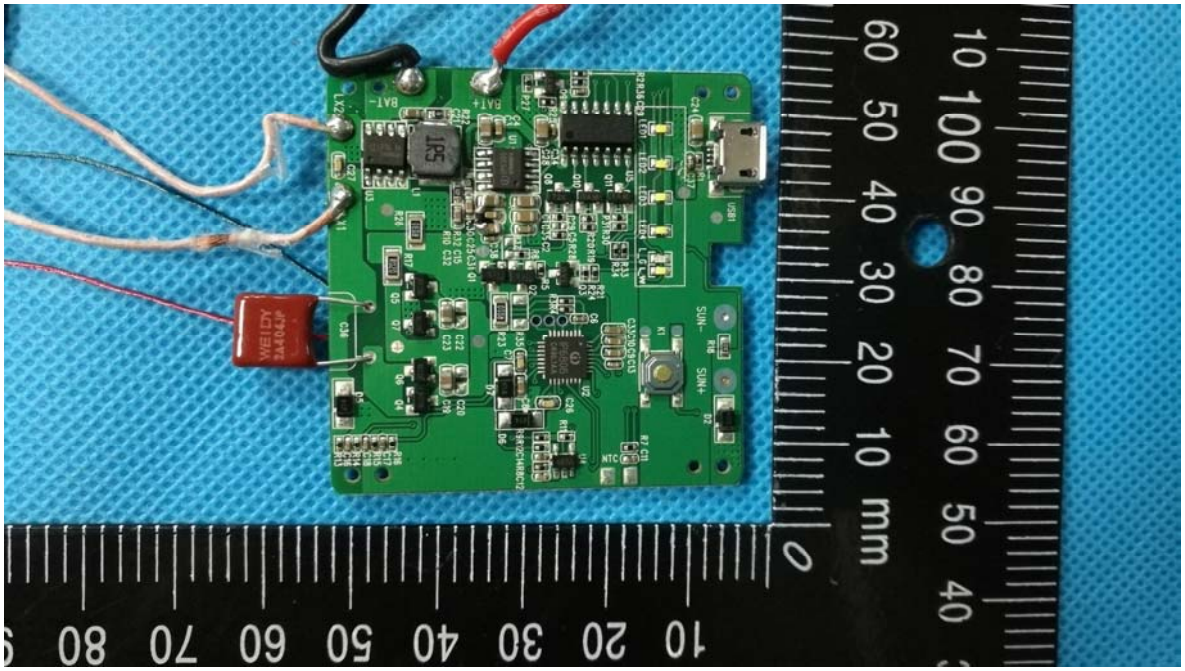












- YF 5575118 3.7V
ICP 6/73/118
+ 6000mAh 22.2Wh