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Report No.: EBO1702041-E111
Page 1 of 27

TEST REPORT

Applicant: EKEN GROUP LIMITED

Address of Applicant: Room 2511-2512, Meilan Business Center, Qianjin Two Road,
XiXiang, Baoan District, ShenZhen, China

Equipment Under Test (EUT)

Product Name: ACTION CAMERA

Model No.: Pano360 Pro, Pano360, Pano360 se

FCC ID: 2ADDG-PANO360

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2015

Date of sample receipt: February 16, 2017

Date of Test: February 16, 2017 To March 09.2017

Date of report issue: March 09.2017

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kevin Yu
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



2 Version

Version No.	Date	Description
00	March 09.2017	Original

Prepared By:

Date:

March 09.2017

Project Engineer

Check By:

Date:

March 09.2017

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	PASS
Radiated Emissions	Part15.109	PASS

PASS: The EUT complies with the essential requirements in the standard.

Remark : Test according to ANSI C63.4:2014.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



5 General Information

5.1 Client Information

Applicant:	EKEN GROUP LIMITED
Address of Applicant:	Room 2511-2512, Meilan Business Center, Qianjin Two Road, XiXiang, Baoan District, ShenZhen, China
Manufacturer:	EKEN GROUP LIMITED
Address of Manufacturer:	Room 2511-2512, Meilan Business Center, Qianjin Two Road, XiXiang, Baoan District, ShenZhen, China

5.2 General Description of EUT

Product Name:	ACTION CAMERA
Model No.:	Pano360 Pro, Pano360, Pano360 se
Test Model:	Pano360 Pro
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is the model name and battery capacity for commercial purpose.</i>	
Power Supply:	DC 3.7V 2*650mAh battery or DC 5V/1.5A POWER ADAPTER MODEL: ZXT-051500E INPUT: AC 100-240V,50/60Hz,0.4A OUTPUT: DC 5V/1.5A

5.3 Test mode

Test mode:	
REC mode	Keep the EUT in video record mode.
PC mode	Keep the EUT in data exchange with pc



5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
Apple	PC	A1278	C1MN99ERDTY3	Doc
Kingston	TF card	SD-C01G	N/A	Doc
DELL	KEYBOARD	SK-8115	GTS237-2	Doc
DELL	MOUSE	MOC5UO	GTS237-3	Doc

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna. Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June. 29 2016	June. 28 2017
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 29 2016	June. 28 2017
5	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June. 29 2016	June. 28 2017
6	RF Amplifier	HP	8347A	GTS204	June. 29 2016	June. 28 2017
7	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June. 29 2016	June. 28 2017
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	June. 29 2016	June. 28 2017
10	Coaxial Cable	GTS	N/A	GTS211	June. 29 2016	June. 28 2017
11	Thermo meter	N/A	N/A	GTS256	June. 29 2016	June. 28 2017

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017
5	Coaxial Cable	GTS	N/A	GTS227	June. 29 2016	June. 28 2017
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017

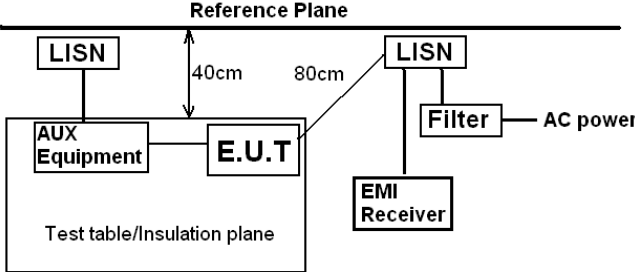
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	Jun. 29 2016	Jun. 28 2017

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7 Test Results and Measurement Data

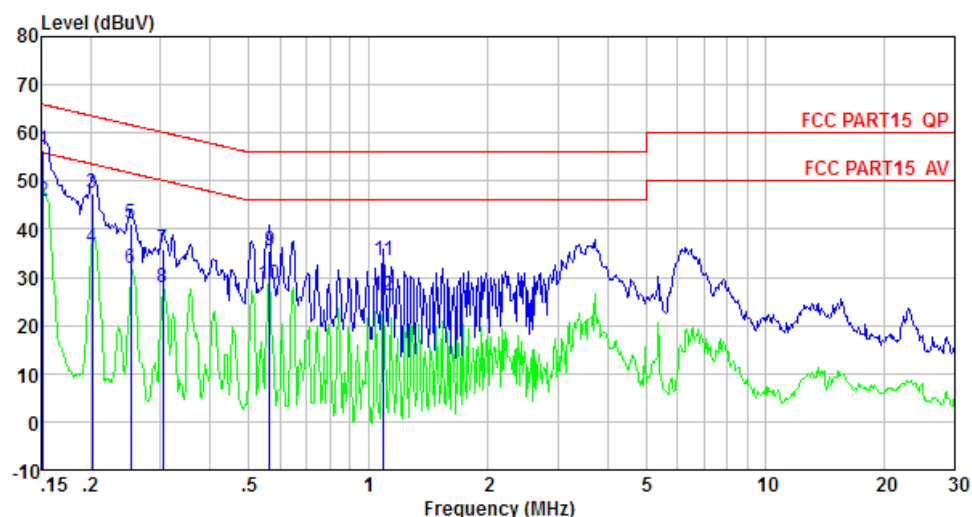
7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107		
Test Method:	ANSI C63.4:2014		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:			
	Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.		
Test Instruments:	Refer to section 6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		



Measurement Data

Test mode	PC mode	Polarization	Line
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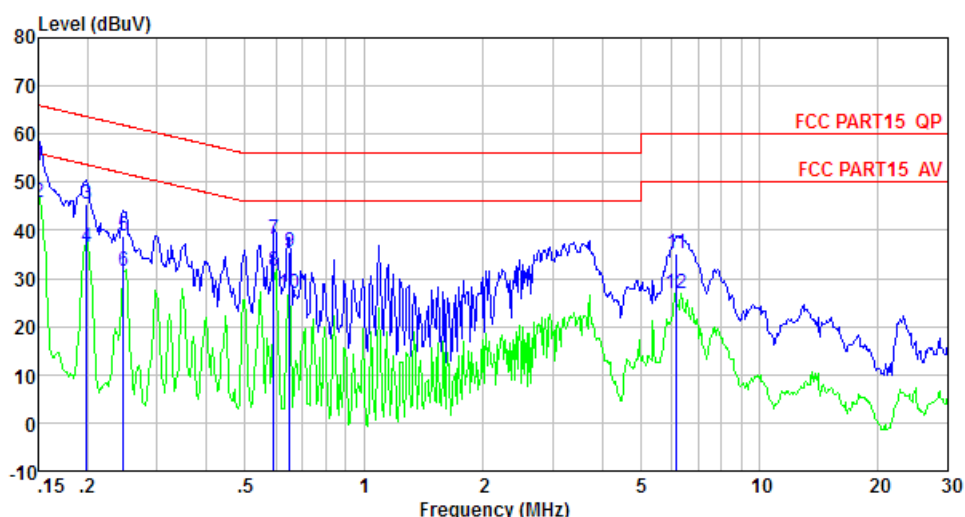


Freq MHz	Reading level dBuV	LIISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.152	55.73	0.42	0.12	56.27	65.91	-9.64	QP
0.152	45.35	0.42	0.12	45.89	55.91	-10.02	Average
0.202	46.84	0.43	0.13	47.40	63.54	-16.14	QP
0.202	35.66	0.43	0.13	36.22	53.54	-17.32	Average
0.252	40.43	0.44	0.11	40.98	61.69	-20.71	QP
0.252	31.24	0.44	0.11	31.79	51.69	-19.90	Average
0.303	35.21	0.44	0.10	35.75	60.15	-24.40	QP
0.303	27.19	0.44	0.10	27.73	50.15	-22.42	Average
0.564	35.08	0.33	0.12	35.53	56.00	-20.47	QP
0.564	27.95	0.33	0.12	28.40	46.00	-17.60	Average
1.094	33.15	0.25	0.13	33.53	56.00	-22.47	QP
1.094	25.78	0.25	0.13	26.16	46.00	-19.84	Average

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Test mode	PC mode	Polarization	Neutral
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Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.150	53.05	0.41	0.12	53.58	66.00	-12.42	QP
0.150	45.27	0.41	0.12	45.80	56.00	-10.20	Average
0.199	44.86	0.41	0.13	45.40	63.67	-18.27	QP
0.199	35.82	0.41	0.13	36.36	53.67	-17.31	Average
0.247	38.29	0.42	0.11	38.82	61.86	-23.04	QP
0.247	30.88	0.42	0.11	31.41	51.86	-20.45	Average
0.592	37.71	0.28	0.12	38.11	56.00	-17.89	QP
0.592	31.25	0.28	0.12	31.65	46.00	-14.35	Average
0.647	35.26	0.26	0.13	35.65	56.00	-20.35	QP
0.647	26.45	0.26	0.13	26.84	46.00	-19.16	Average
6.186	34.70	0.21	0.16	35.07	60.00	-24.93	QP
6.186	26.65	0.21	0.16	27.02	50.00	-22.98	Average

Notes:

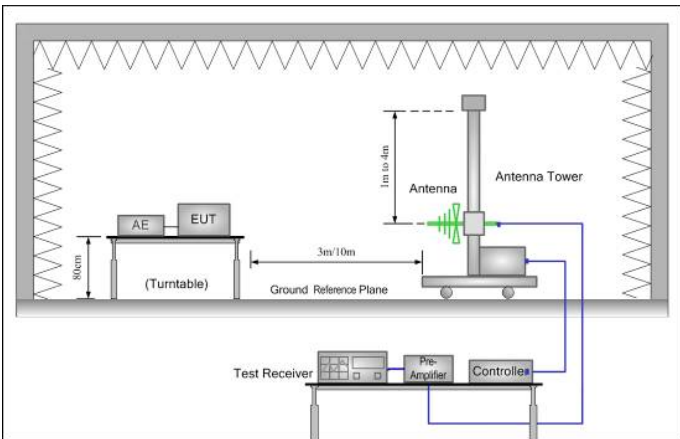
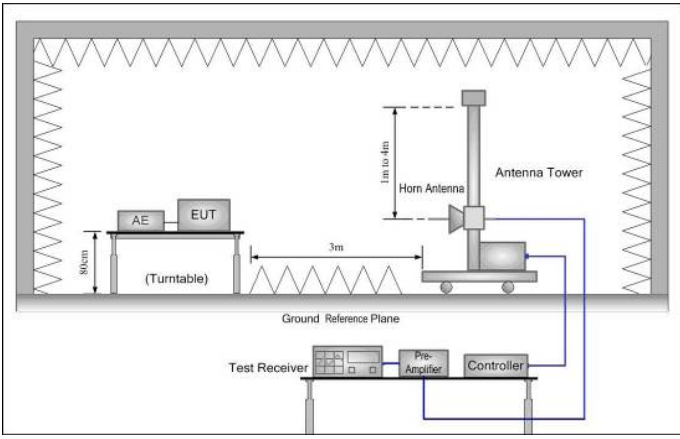
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109																								
Test Method:	ANSI C63.4:2014																								
Test Frequency Range:	30MHz to 25GHz																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																					
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value																					
Above 1GHz	Peak	1MHz	3MHz	Peak Value																					
	Peak	1MHz	10Hz	Average Value																					
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak Value</td></tr><tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak Value</td></tr><tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak Value</td></tr><tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr><tr><td>74.00</td><td>Peak Value</td></tr></table>					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.00	Quasi-peak Value	88MHz-216MHz	43.50	Quasi-peak Value	216MHz-960MHz	46.00	Quasi-peak Value	960MHz-1GHz	54.00	Quasi-peak Value	Above 1GHz	54.00	Average Value	74.00	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																							
30MHz-88MHz	40.00	Quasi-peak Value																							
88MHz-216MHz	43.50	Quasi-peak Value																							
216MHz-960MHz	46.00	Quasi-peak Value																							
960MHz-1GHz	54.00	Quasi-peak Value																							
Above 1GHz	54.00	Average Value																							
	74.00	Peak Value																							
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.																								

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Test setup:	Below 1GHz					
						
	Above 1GHz					
						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Measurement Record:	Uncertainty: ± 4.5dB					
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

For above 1GHz test ,1GHz to 25GHz all have been tested, only worse case 1GHz to 6GHz is reported, from 6GHz to 25GHz, no emission is found.

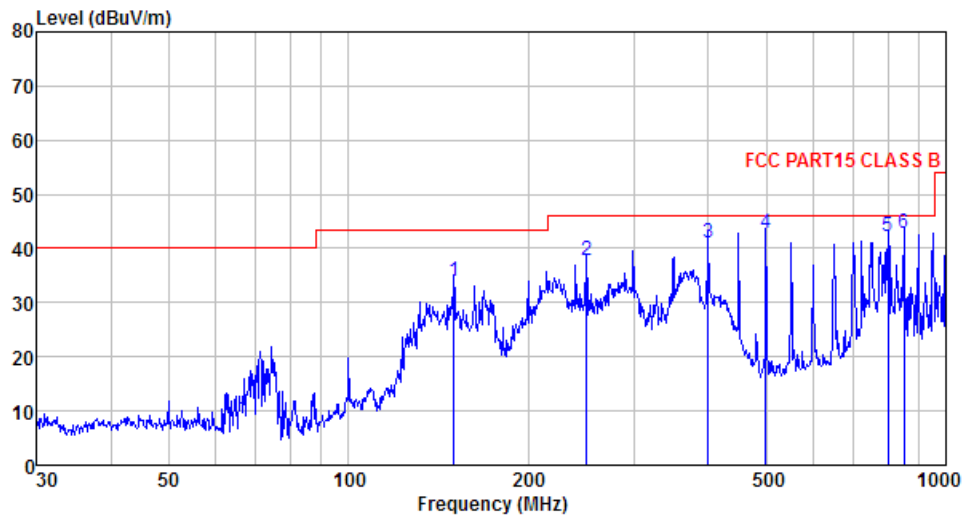
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Measurement Data

Below 1GHz

Test mode	PC mode	Polarization	Horizontal:
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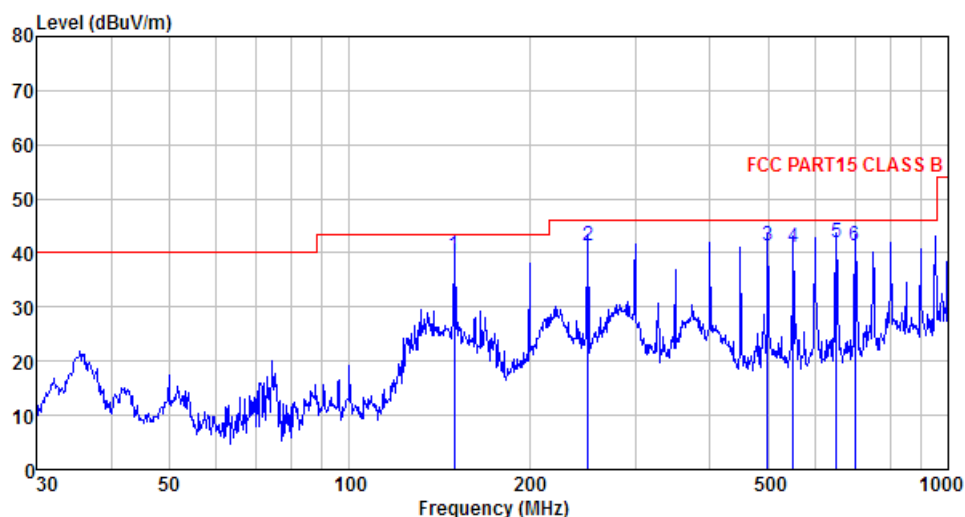


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
150.011	54.52	7.50	1.57	29.60	33.99	43.50	-9.51	QP
250.301	53.52	11.85	2.12	29.79	37.70	46.00	-8.30	QP
400.432	52.23	15.50	2.85	29.60	40.98	46.00	-5.02	QP
499.425	51.37	17.50	3.30	29.50	42.67	46.00	-3.33	QP
798.980	45.65	21.30	4.45	29.10	42.30	46.00	-3.70	QP
851.035	45.72	21.75	4.66	29.20	42.93	46.00	-3.07	QP

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Test mode	PC mode	Polarization	Vertical
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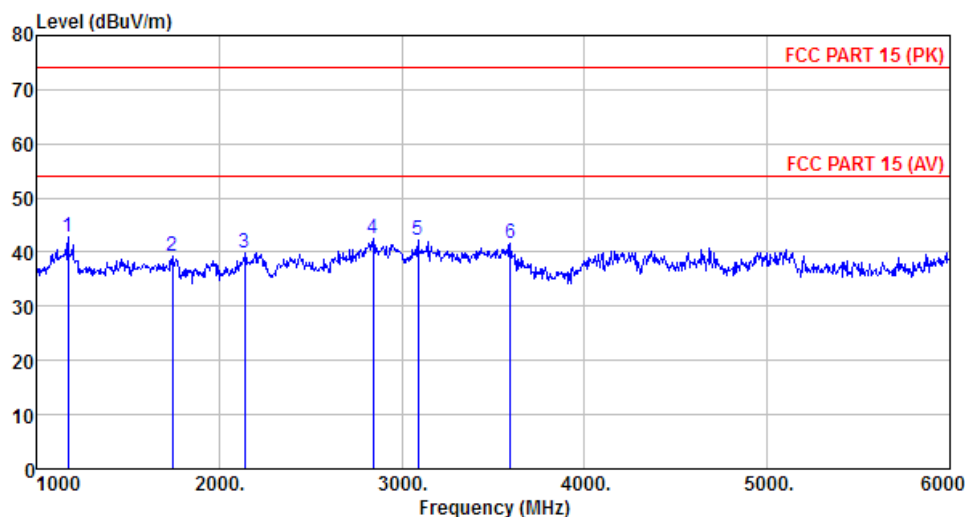
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
149.486	60.06	7.50	1.56	29.60	39.52	43.50	-3.98	QP
250.301	57.14	11.85	2.12	29.79	41.32	46.00	-4.68	QP
499.425	50.04	17.50	3.30	29.50	41.34	46.00	-4.66	QP
550.948	48.64	18.40	3.53	29.45	41.12	46.00	-4.88	QP
649.660	47.66	19.55	3.91	29.30	41.82	46.00	-4.18	QP
699.305	46.60	19.79	4.08	29.20	41.27	46.00	-4.73	QP

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Above 1GHz

Test mode	PC mode	Polarization	Horizontal:
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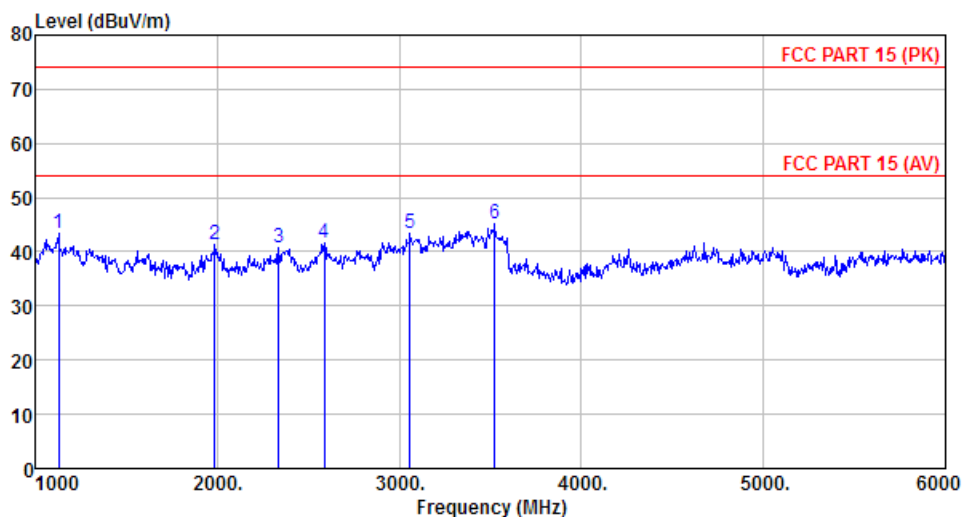


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
1175.000	46.09	25.20	4.45	33.04	42.70	74.00	-31.30	Peak
1745.000	43.27	25.06	4.83	34.03	39.13	74.00	-34.87	Peak
2140.000	41.66	27.46	5.12	34.30	39.94	74.00	-34.06	Peak
2845.000	41.92	28.39	5.80	33.49	42.62	74.00	-31.38	Peak
3090.000	40.67	28.69	6.12	33.22	42.26	74.00	-31.74	Peak
3595.000	37.89	29.13	7.15	32.64	41.53	74.00	-32.47	Peak

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Test mode	PC mode	Polarization	Vertical
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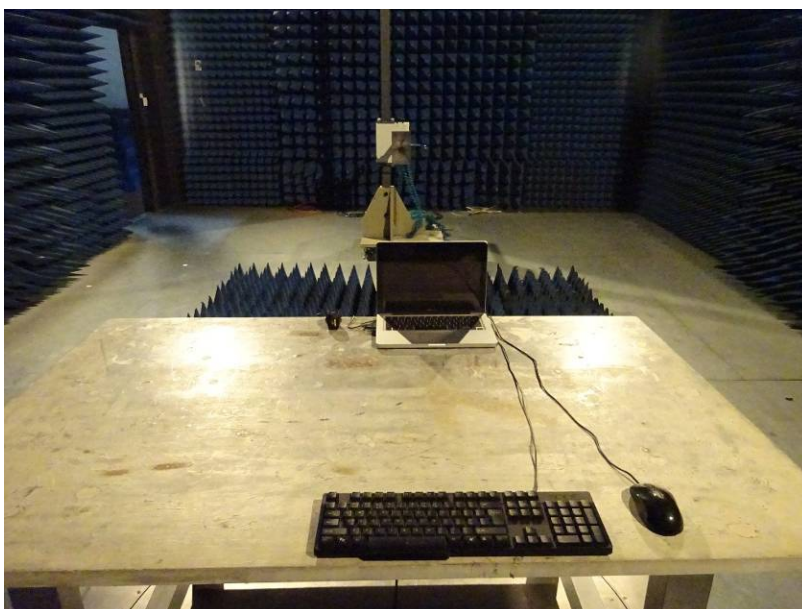
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
1130.000	46.98	24.89	4.41	32.98	43.30	74.00	-30.70	Peak
1985.000	44.65	26.06	4.95	34.43	41.23	74.00	-32.77	Peak
2340.000	41.82	27.77	5.33	34.07	40.85	74.00	-33.15	Peak
2590.000	42.08	27.77	5.57	33.78	41.64	74.00	-32.36	Peak
3060.000	42.07	28.66	6.06	33.26	43.53	74.00	-30.47	Peak
3525.000	41.82	29.04	7.01	32.71	45.16	74.00	-28.84	Peak

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8 Test Setup Photo

Radiated Emission



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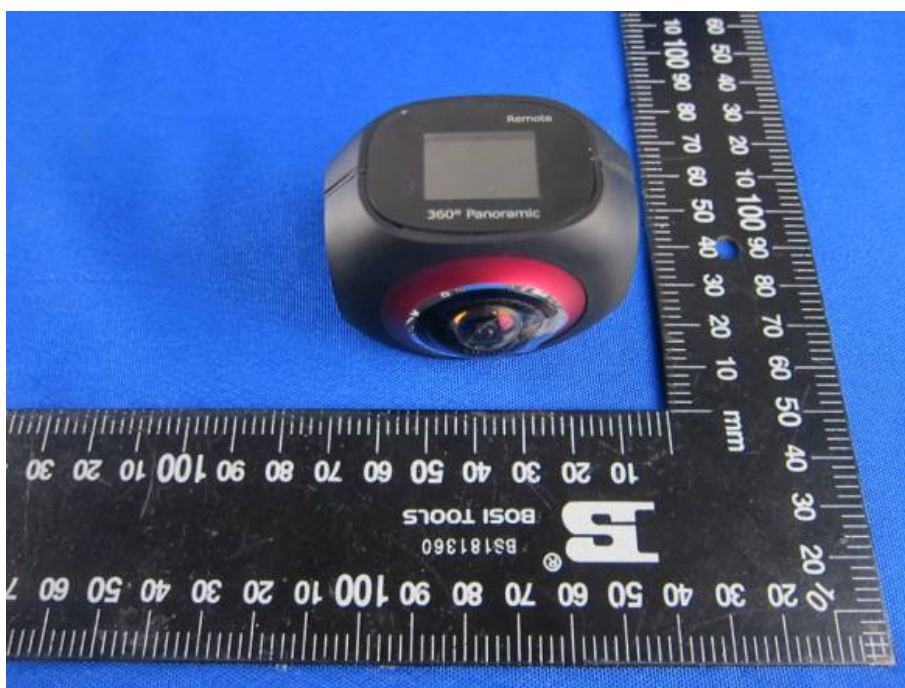
Conducted Emission



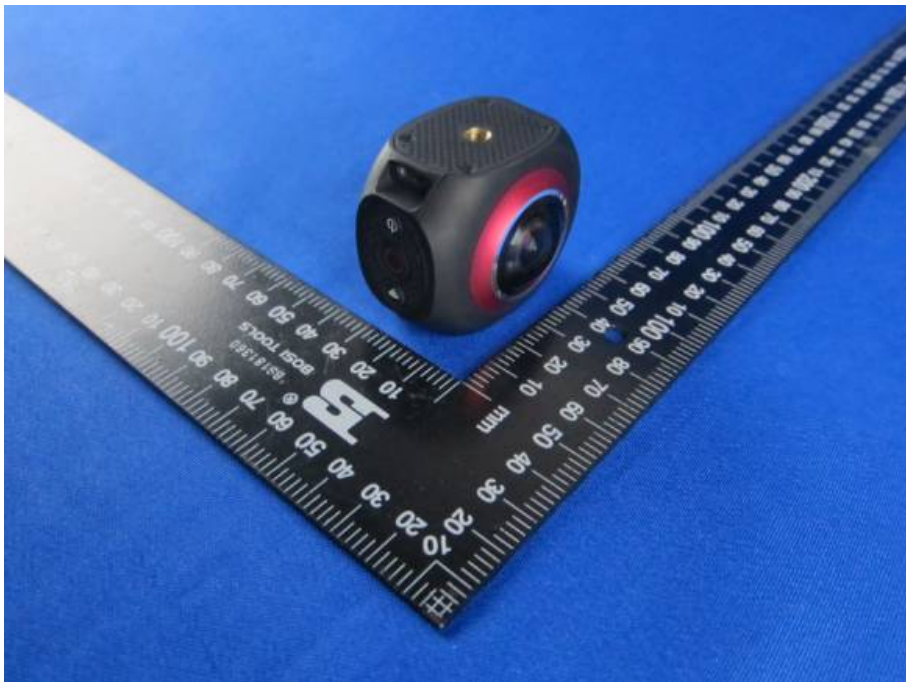
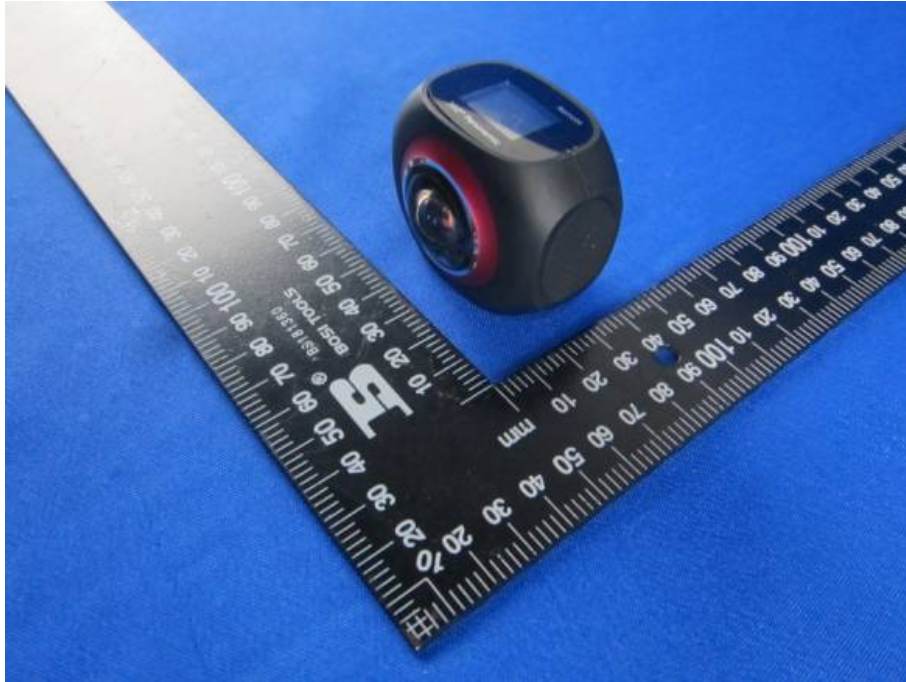
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9 EUT Constructional Details



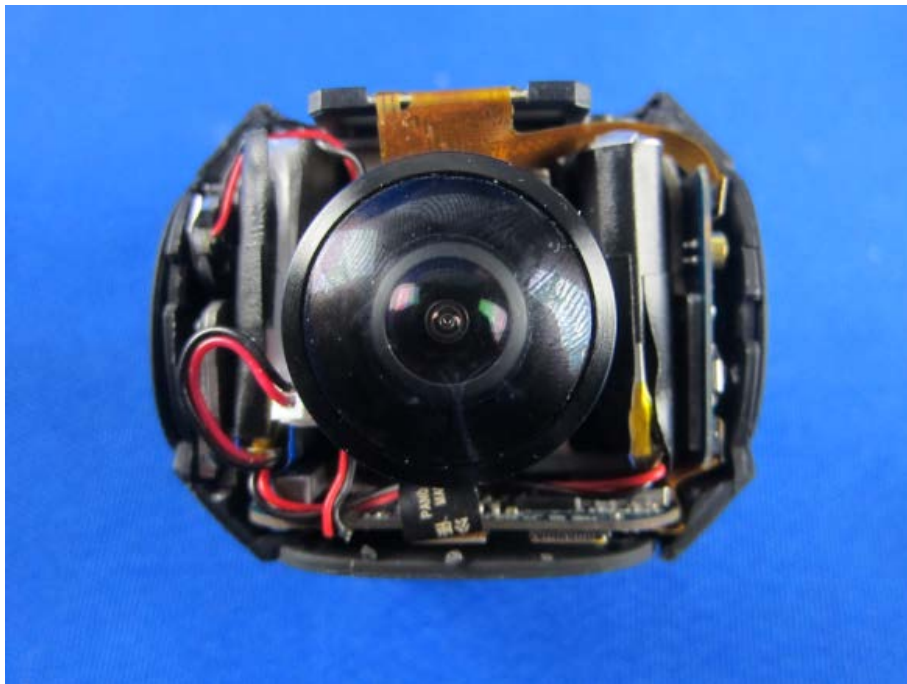
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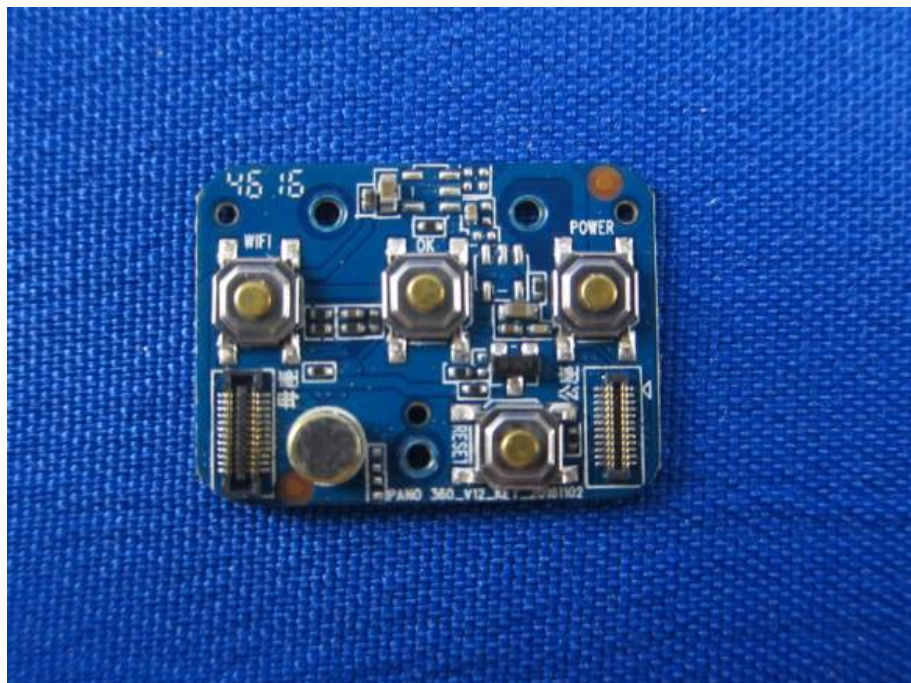
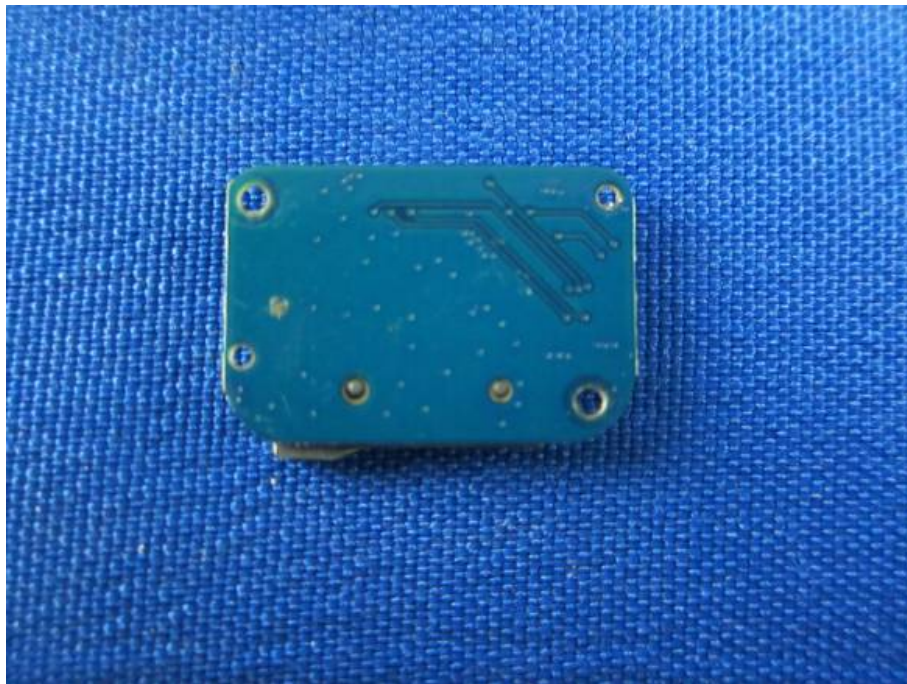


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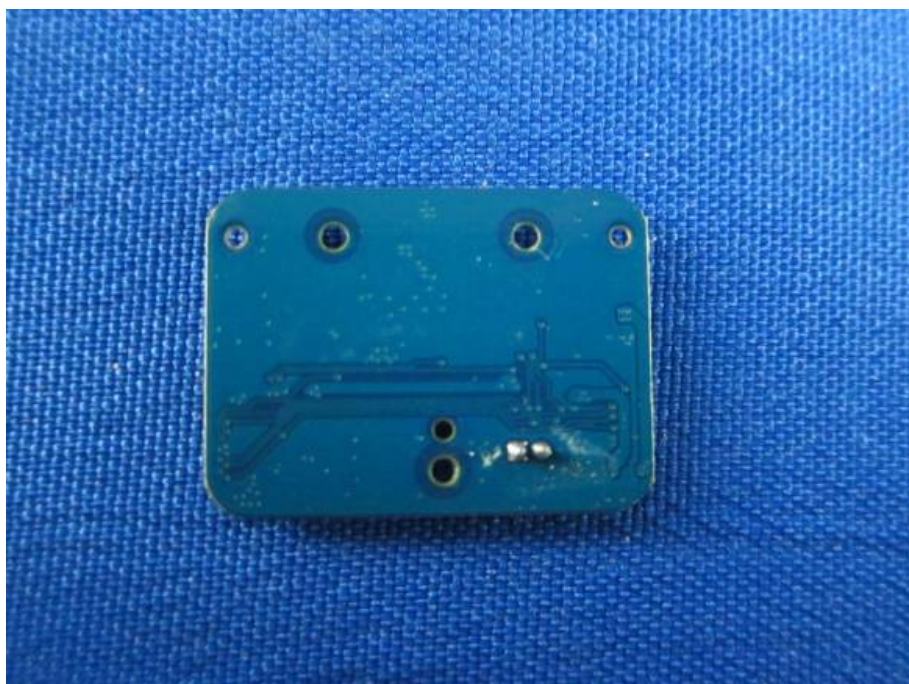


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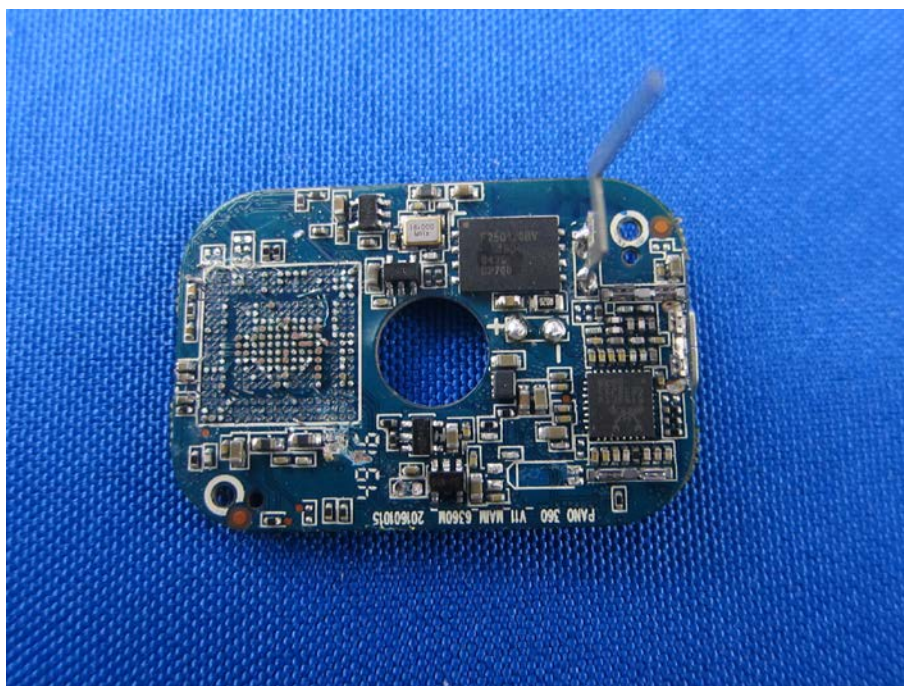




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