



FCC TEST REPORT

Client Information:

Applicant: Beijing Veikk E-commerce Co.,Ltd

Applicant add.: Room 302, Building 10, Machikou Village, Machikou Town, Changping District, Beijing, China

Brand Name: VEIKK

Product Information:

Product Name: Pen Tablet

Model No.: A15Pro

Derivative model No.: N/A

Test Date: Sep. 18, 2019 to Sep. 19, 2019

Issue Date: Sep. 20, 2019

Test Standard: FCC Part 15, Subpart B: 2016
ANSI C63.4:2014

Test Result: PASS

Tested by Amanda Chen

Amanda Chen

Reviewed by Apple Huang

Apple Huang

Approved by Brian Yang

Brian Yang



This test report may be reproduced in full only
Test result presented in this test report is applicable to the tested sample only



Report Revision History			
Report No.	Report Version	Description	Issue Date
ET-19050718	NONE	Original	Sep. 20, 2019

Customer information	
Applicant Name	Beijing Veikk E-commerce Co.,Ltd
Applicant Address	Room 302, Building 10, Machikou Village, Machikou Town, Changping District, Beijing, China
Manufacturer Name	Shenzhen Hezon Lito Technology Co.,Ltd.
Manufacturer Address	Floor 2, Building 2, Shasi 3rd industrial zone, Shajing Street, Baoan District, Shenzhen

Test site information	
Lab performing tests	Shenzhen ETR Standard Technology Co., Ltd.
Lab Address	No. 10 103, Phase I, Xinhe Community Emerging Industrial Park, Fuhai Street, Baoan District, Shenzhen City
Telephone:	+86 755 85259392
Fax:	+86 755 27219460
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under test	



TABLE OF CONTENTS

	Page
Test Report Declaration	
1. GENERAL PRODUCT INFORMATION	4
1.1. Product Function	4
1.2. Description of Device (EUT)	4
1.3. Difference between Model Numbers.....	4
1.4. Independent Operation Modes	5
1.5. Test Supporting System.....	6
2. TEST SITES.....	7
2.1. Test Facilities	7
2.2. Test Summary.....	7
2.3. List of Test and Measurement Instruments.....	7
3. TEST SET-UP AND OPERATION MODES.....	8
3.1. Principle of Configuration Selection	9
3.2. Block Diagram of Test Set-up	9
3.3. Test Operation Mode and Test Software	10
3.4. Special Accessories and Auxiliary Equipment	11
3.5. Countermeasures to Achieve EMC Compliance.....	11
4. TEST RESULTS.....	12
4.1. Conducted Emission at the Mains Terminals Test	12
4.2. Radiated Emission Test (below 1 GHz).....	13
4.3. Radiated Emission Test (above 1 GHz)	14
5. PHOTOGRAPHS OF TEST SET-UP.....	15
6. PHOTOGRAPHS OF THE EUT.....	16



1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

Description : Pen Tablet

M/N : A15Pro

Power Supply : Input: DC5V, 2A

Testing voltage : DC 5V from PC with AC 120V/60Hz

The basic operation mode is:

Pretest Mode	Description
Mode 1	Working

1.3. Difference between Model Numbers

N/A

2. TEST SITES

2.1. Test Summary

Test Item	Condition	Standard	Result
Conducted disturbance at mains terminals	150kHz to 30MHz	FCC Part 15, Subpart B: 2016 ANSI C63.4:2014	Pass
Radiated Emission (below 1 GHz)	30MHz to 1GHz	FCC Part 15, Subpart B: 2016 ANSI C63.4:2014	Pass
Radiated Emission (above 1 GHz)	Above 1GHz	FCC Part 15, Subpart B: 2016 ANSI C63.4:2014	N/A

Remark: 1. The symbol "N/A" in above table means Not Applicable.

2. When determining the test results, measurement uncertainty of tests has been considered.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber	3.60dB
Uncertainty for Conducted Emission.	2.60dB

2.2. List of Test and Measurement Instruments

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
For conducted emission at the mains terminals and load port test					<input checked="" type="checkbox"/>
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr 9,19	Apr 9,20
Artificial Mains Network	Rohde&Schwarz	ENV216	101315	Apr 9,19	Apr 9,20
Artificial Mains Network (AUX)	Rohde&Schwarz	ENV216	101314	Apr 9,19	Apr 9,20
RF Cable	FUJIKURA	3D-2W	944 Cable	Apr 9,19	Apr 9,20
Voltage Probe	CHWARZBECK	A130302	KWE-053	Apr 12, 19	Apr 12, 20
For radiated emission test (Below 1GHz)					<input checked="" type="checkbox"/>
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr 9,19	Apr 9,20
Bilog Antenna	ETS-LINDGREN	3142D	00135452	Apr 2, 19	Apr 2, 20
Spectrum Analyzer	Agilent	8593E	3911A0427 1	Apr 9,19	Apr 9,20
3m Semi-anechoic Chamber	ETS-LINDGREN	966	170326	Apr 2, 19	Apr 2, 20
Signal Amplifier	SONOMA	310	186956	Apr 9,19	Apr 9,20
RF Cable	IMRO	IMRO-400	966 Cable 1#	Apr 9,19	Apr 9,20
MULTI-DEVICE Controller	ETS-LINDGREN	2090	126913	N/A	N/A
Antenna Holder	ETS-LINDGREN	2070B	00109601	N/A	N/A
For radiated emission test (Above 1GHz)					<input type="checkbox"/>
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr 9,19	Apr 9,20
Horn Antenna	DAZE	ZN30701	11003	Apr 13, 19	Apr 13, 20
Spectrum Analyzer	Agilent	8593E	3911A0427 1	Apr 9,19	Apr 9,20
3m Semi-anechoic Chamber	ETS-LINDGREN	966	170326	Apr 2, 19	Apr 2, 20
Signal Amplifier	ZHINAN	ZN3380C	11001	Apr 9,19	Apr 9,20
RF Cable	IMRO	IMRO-400	966 Cable 1#	Apr 9,19	Apr 9,20
MULTI-DEVICE Controller	ETS-LINDGREN	2090	126913	N/A	N/A
Antenna Holder	ETS-LINDGREN	2070B	00109601	N/A	N/A
Note: <input checked="" type="checkbox"/> Used <input type="checkbox"/> Not Used					

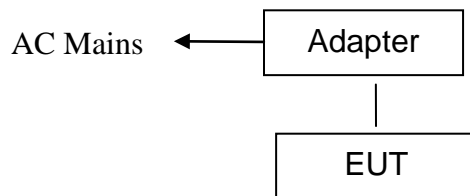
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



(EUT: Pen Tablet)

3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4 & 5.

3.4. Special Accessories and Auxiliary Equipment

1.Thinkpad PC

3.5. Countermeasures to Achieve EMC Compliance

None.

4. TEST RESULTS

4.1. Conducted Emission at the Mains Terminals Test

Result : **PASS**
Test Site : 944 Shielded Room
Limits : FCC Part 15B

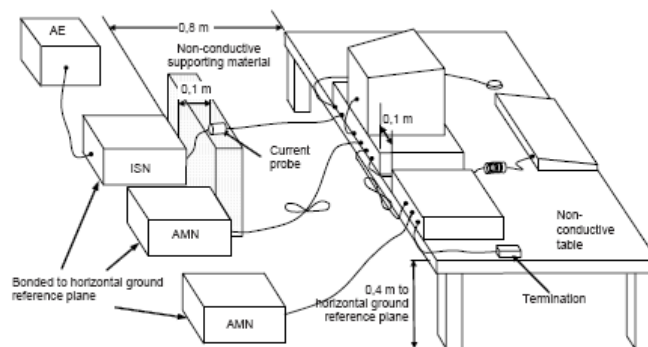
Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

NOTE: 1.The lower limit shall apply at the transition frequencies.
 2.The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

Test method

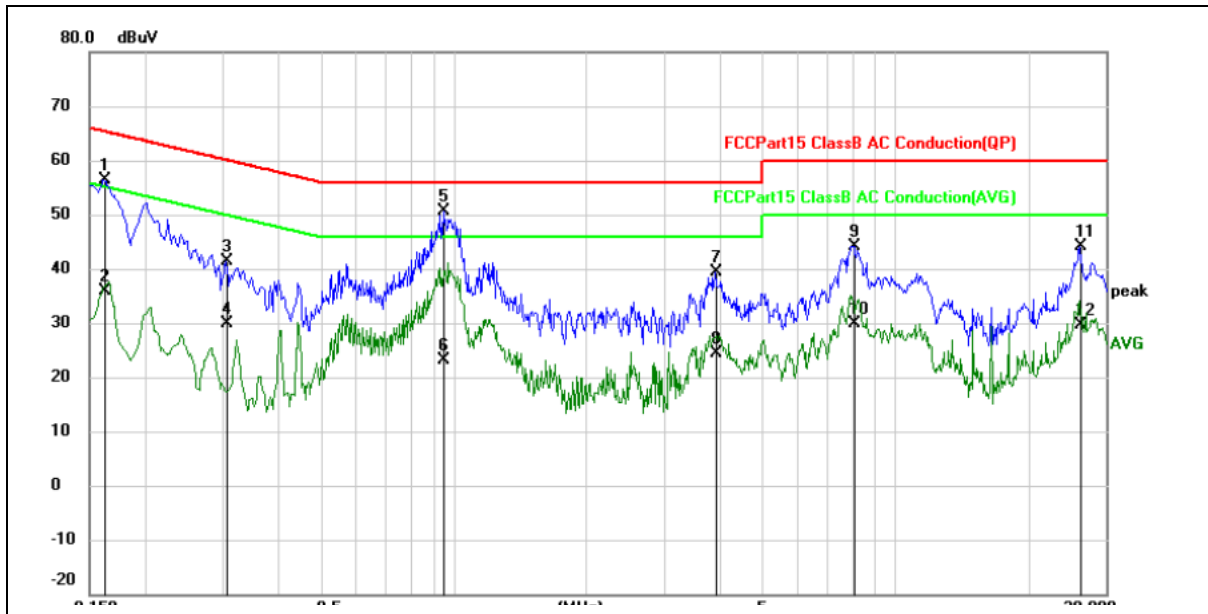
- 1.The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 1 m, the excess was folded back and forth parallel to the cable at the centre so as to form a bundle no longer than 0.4 m.
- 2.The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.
- 3.The bandwidth of the test receiver was set at 9 kHz.
- 4.The worst test data was reported on the following page.

Test Set-up





Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode :	Working



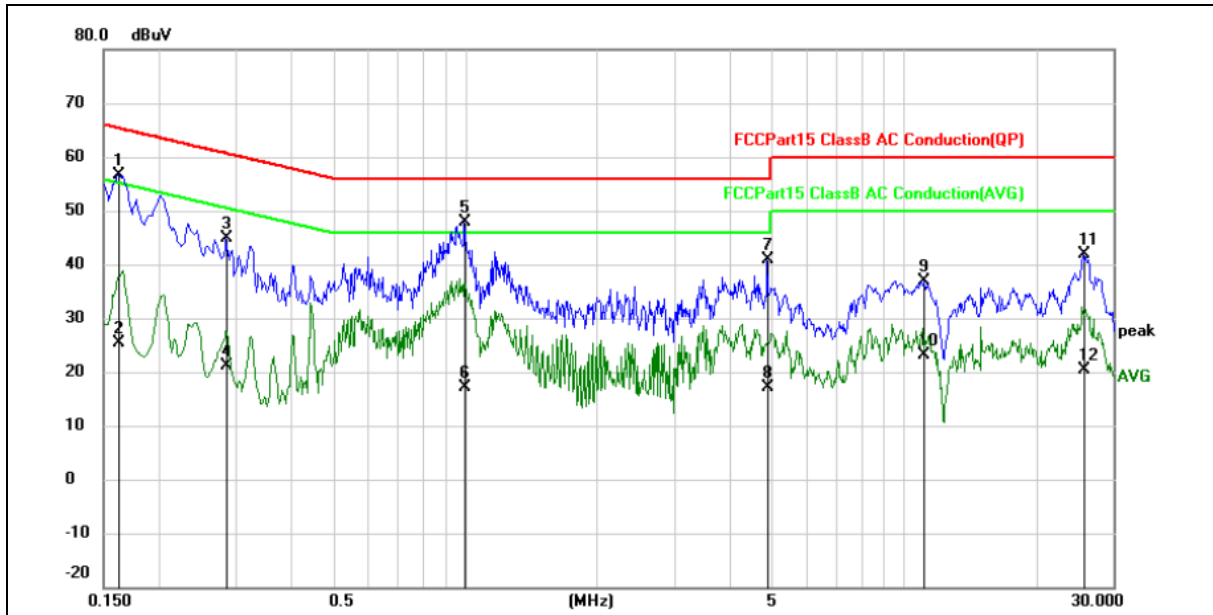
Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor) –Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1620	46.65	9.73	56.38	65.36	-8.98	QP
2		0.1620	26.05	9.73	35.78	55.36	-19.58	AVG
3		0.3059	31.63	9.76	41.39	60.08	-18.69	QP
4		0.3059	20.10	9.76	29.86	50.08	-20.22	AVG
5	*	0.9500	40.62	9.94	50.56	56.00	-5.44	QP
6		0.9500	13.11	9.94	23.05	46.00	-22.95	AVG
7		3.9020	29.24	10.03	39.27	56.00	-16.73	QP
8		3.9020	14.38	10.03	24.41	46.00	-21.59	AVG
9		8.0700	33.95	10.20	44.15	60.00	-15.85	QP
10		8.0700	19.61	10.20	29.81	50.00	-20.19	AVG
11		26.1660	33.75	10.28	44.03	60.00	-15.97	QP
12		26.1660	19.45	10.28	29.73	50.00	-20.27	AVG



Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode :	Working



Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1620	46.83	9.73	56.56	65.36	-8.80	QP
2		0.1620	15.59	9.73	25.32	55.36	-30.04	AVG
3		0.2857	35.06	9.75	44.81	60.65	-15.84	QP
4		0.2857	11.29	9.75	21.04	50.65	-29.61	AVG
5	*	0.9979	38.02	9.95	47.97	56.00	-8.03	QP
6		0.9979	7.12	9.95	17.07	46.00	-28.93	AVG
7		4.8818	30.84	10.05	40.89	56.00	-15.11	QP
8		4.8818	7.06	10.05	17.11	46.00	-28.89	AVG
9		11.0976	26.63	10.26	36.89	60.00	-23.11	QP
10		11.0976	12.94	10.26	23.20	50.00	-26.80	AVG
11		25.6980	31.57	10.26	41.83	60.00	-18.17	QP
12		25.6980	10.24	10.26	20.50	50.00	-29.50	AVG

4.2. Radiated Emission Test (below 1 GHz)

Result : **PASS**
Test Site : 966 Chamber
Limits : FCC Part 15B

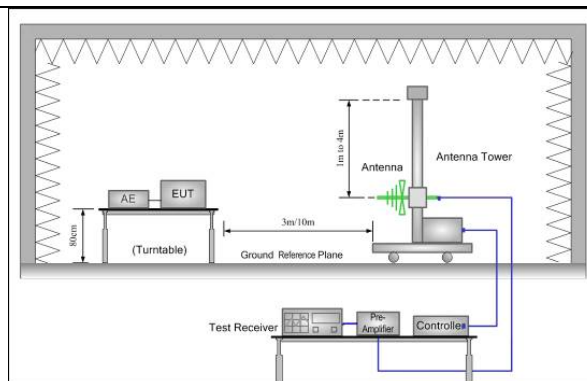
Frequency range MHz	Quasi-peak limits 3m dB(μV/m)
30-88	40
88-216	43.5
216-960	46
960-1000	54

Note: 1.The lower limit shall apply at the transition frequency.
 2.Additional provisions may be required for cases where interference occurs.

Conditional testing procedure

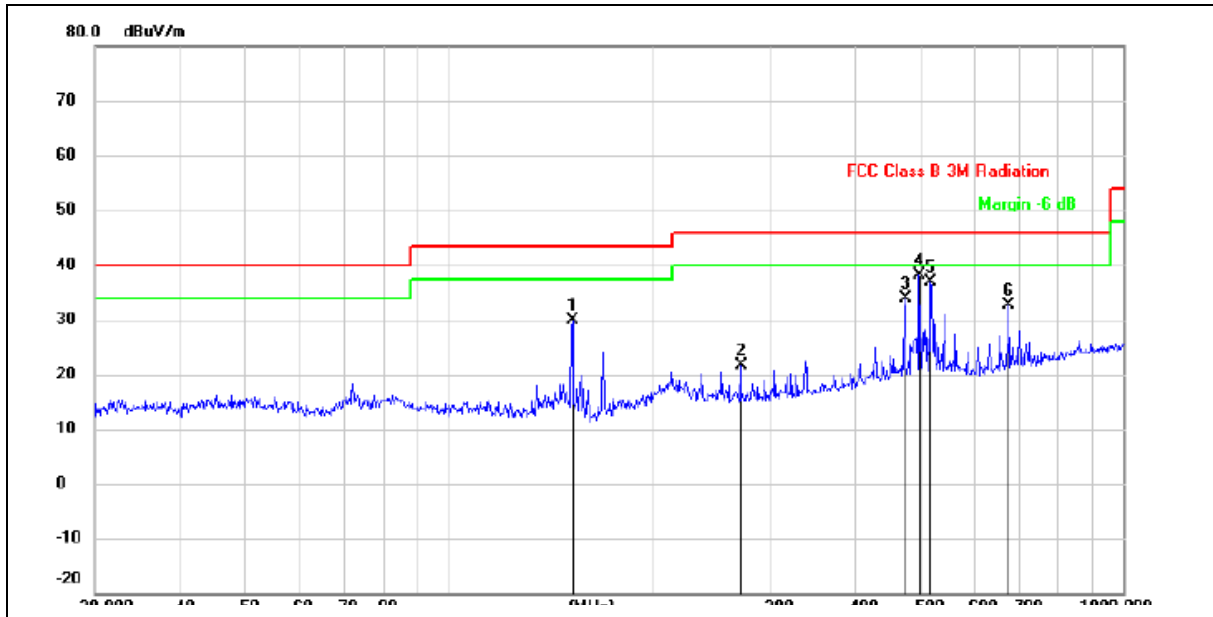
- 1.The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.
- 2.The highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz.
- 2.The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.
- 3.The bandwidth setting on the test receiver was 120 kHz.
- 4.The worst test data was reported on the following page.
- 5.Emission Level = Antenna Factor + Cable Loss + Meter Reading - Preamp Factor.

Test Set-up





Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode :	Working



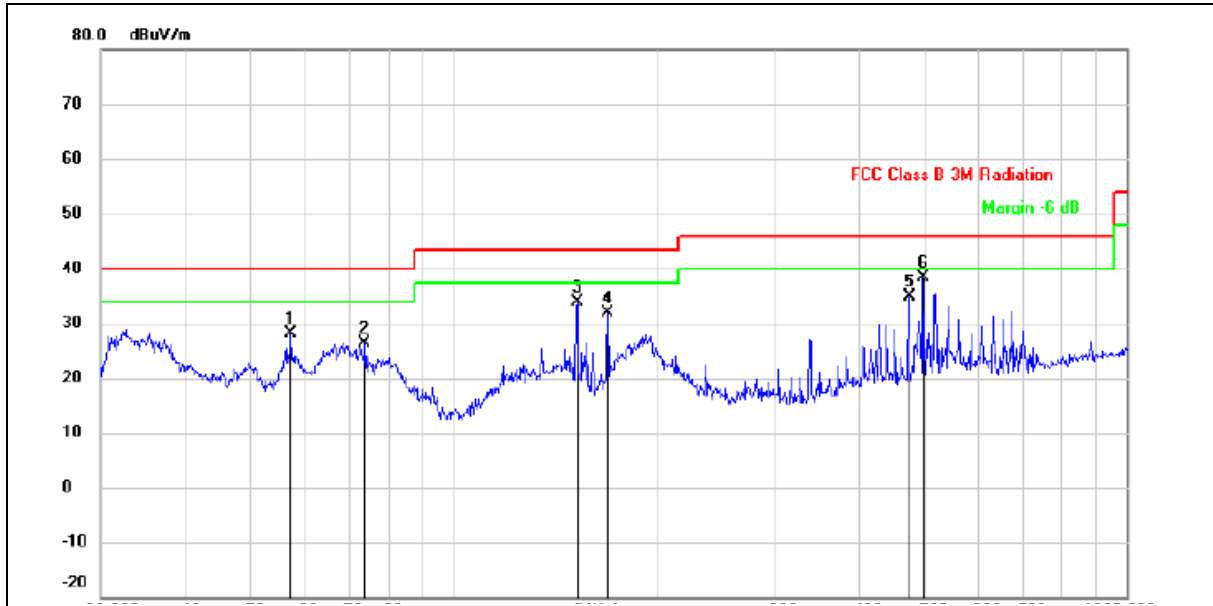
Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	
1		152.6641	44.21	-14.37	29.84	43.50	-13.66	QP
2		271.3246	30.96	-9.42	21.54	46.00	-24.46	QP
3		475.4991	39.30	-5.44	33.86	46.00	-12.14	QP
4	*	497.6765	43.32	-5.11	38.21	46.00	-7.79	QP
5		519.0649	42.00	-5.13	36.87	46.00	-9.13	QP
6		677.5798	36.99	-4.47	32.52	46.00	-13.48	QP



Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode :	Working



Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor)–Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	
1		57.3923	38.91	-10.77	28.14	40.00	-11.86	QP
2		73.8756	40.04	-13.62	26.42	40.00	-13.58	QP
3		152.6641	47.16	-13.36	33.80	43.50	-9.70	QP
4		169.5990	44.27	-12.44	31.83	43.50	-11.67	QP
5		475.4991	40.34	-5.44	34.90	46.00	-11.10	QP
6	*	497.6765	44.15	-5.87	38.28	46.00	-7.72	QP

Radiated Emission Test (above 1 GHz)

Result : N/A
Test Site : 966 Chamber
Limits : FCC Part 15B

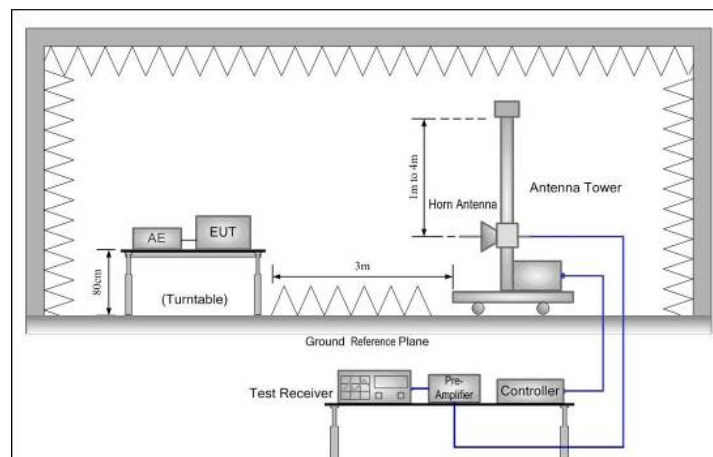
Frequency range GHz	Average limit dB(μ V/m)	Peak limit dB(μ V/m)
1-3	50	70
3-6	54	74

Note: The lower limit applies at the transition frequency

Conditional testing procedure

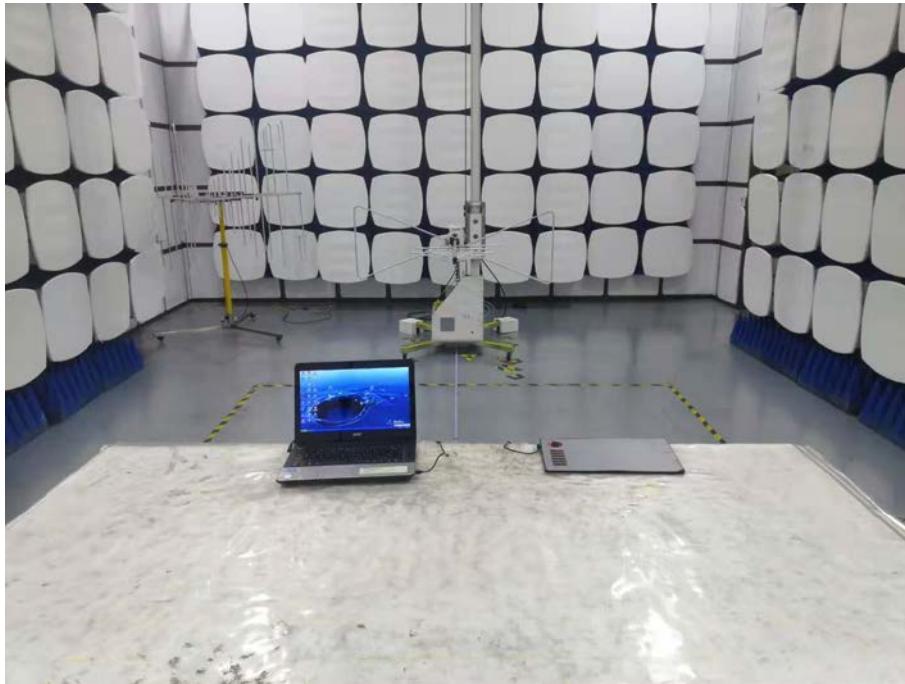
- 1.The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.
- 2.The EUT was tested in the 3m Chamber Site. It was pre-scanned with a Peak detector from the spectrum.
- 3.The bandwidth setting on the test receiver was 1 MHz.
- 4.The worst test data was reported on the following page.
5. Emission Level = Antenna Factor + Cable Loss + Meter Reading - Preamp Factor.
the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz.
the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz.
the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is lower.

Test Set-up

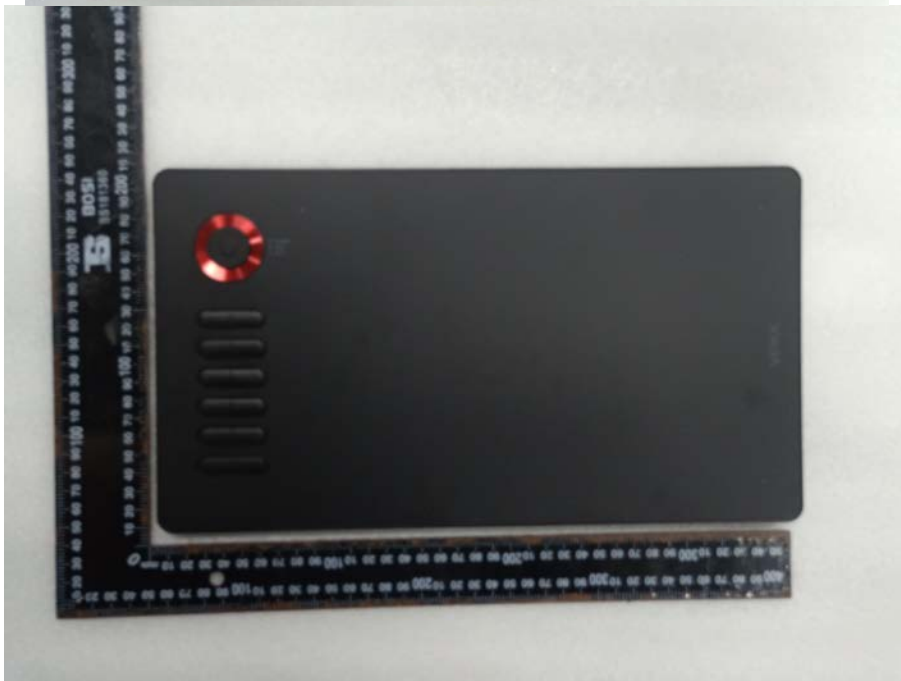


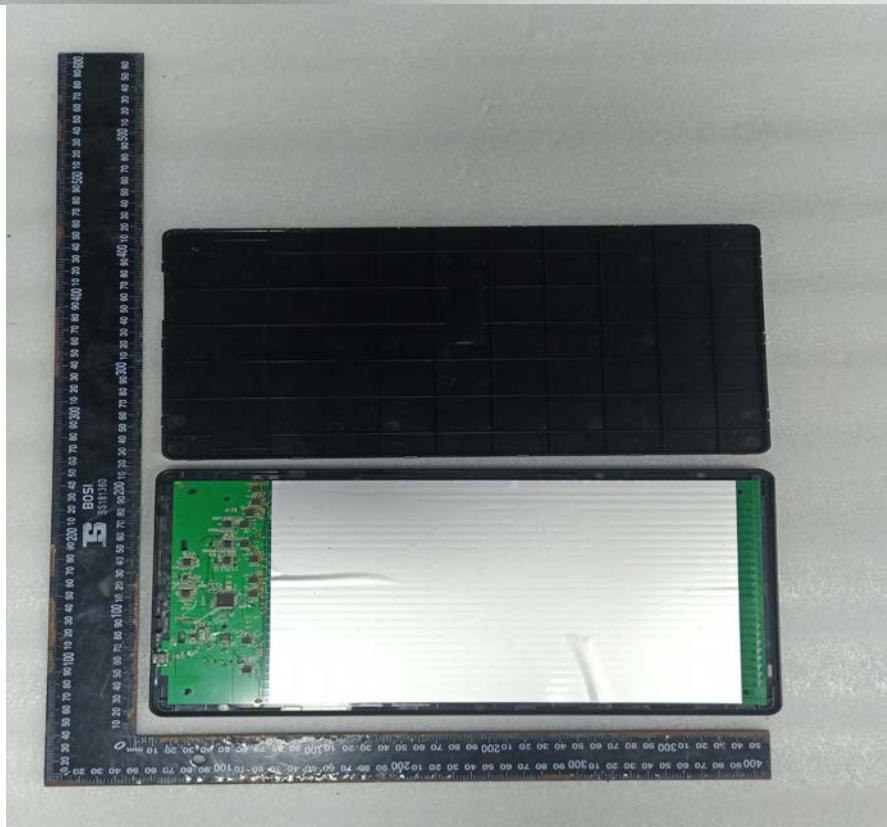
5. PHOTOGRAPHS OF TEST SET-UP

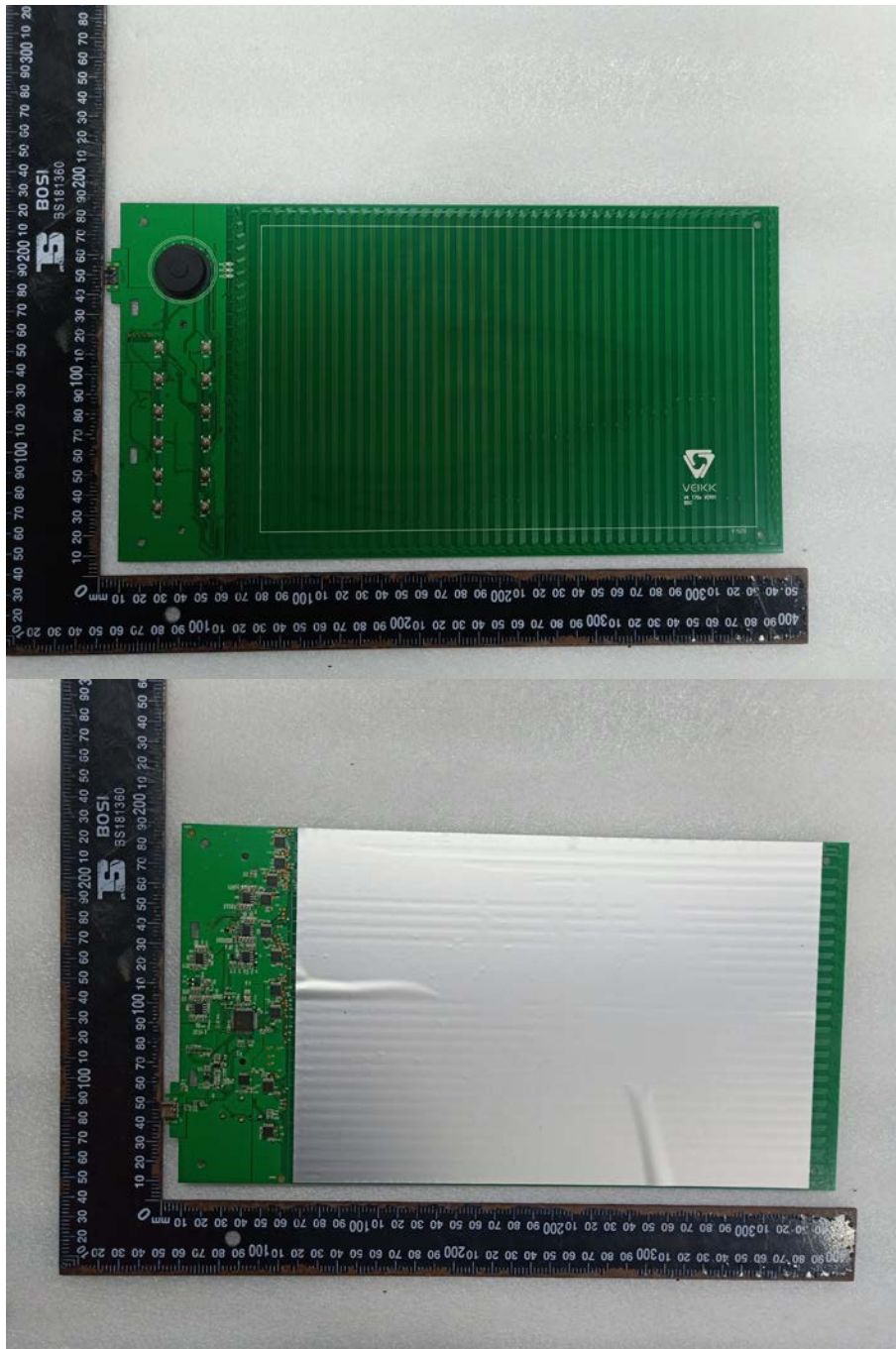
Radiated Emission Test



6. PHOTOGRAPHS OF THE EUT







the end of report