



EMC TEST REPORT

Applicant:	Borqs BeiJing Ltd.
Address:	Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road, Chaoyang District Beijing, 100015 China

Manufacturer or Supplier:	Borqs BeiJing Ltd.
Address:	Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road, Chaoyang District Beijing, 100015 China
Product:	EcoPort Ethernet-Modbus
Brand Name:	SkyCentrics
Model Name:	US08C
FCC ID:	2ABDK-US08C
Date of tests:	Nov. 10, 2023 ~ Nov. 20, 2023

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

FCC Part 15, Subpart B, Class A
 FCC Part 15, Subpart B, Class B
 ANSI C63.4:2014

CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement

Prepared by Chao Wu Engineer / Mobile Department Approved by Peibo Sun Manager / Mobile Department

Chao Wu

Date: Nov. 20, 2023

Simpeibo

Date: Nov. 20, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report stofth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the completeness.



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3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	4



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P231108W001EM01	Original release	Nov. 20, 2023



1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	EcoPort Ethernet-Modbus	
BRAND NAME*	SkyCentrics	
MODEL NAME*	US08C	
NOMINAL VOLTAGE*	EUT 120 Vac	
MODULATION TYPE*	N/A	
OPERATING FREQUENCY*	I/A	
HW VERSION*	PVT	
SW VERSION*	CFT_PICO_SPARROW_20230315	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	N/A	
ACCESSORY DEVICES*	N/A	

NOTE:

- 1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the test report.



1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B				
Standard Section	Test Item	Result	Test lab*	
FCC Part 15,	Conducted Test	Compliance	А	
Subpart B, Class B	Radiated Emission Test (30MHz ~ 1GHz)	Compliance	А	
ANSI C63.4:2014	Radiated Emission Test (Above 1GHz)	Compliance	А	

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.



1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	±2.70dB
	30MHz~1GHz	±4.98dB
Dediated emissions	1GHz ~6GHz	±4.70dB
Radiated emissions	6GHz ~18GHz	±4.60dB
	18GHz ~40GHz	±4.12dB



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition		
	Radiated emission test		
1	1 EUT Working + LAN		
2	EUT Working + PC Link RS485 and USB + LAN		

Test Mode	Test Condition		
	Conducted emission test		
1	1 EUT Working + LAN		
2	EUT Working + PC Link RS485 and USB + LAN		

NOTE:

- 1. For conducted emission test, Pre-scan all mode, mode 1 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, Pre-scan all mode, test mode 1 was the worst case and only this mode was presented in this report.



1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR All TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	Thinkpad E14	SL10W47313	N/A
2	TBD	Borqs	US08C (MAC: 84FEDC538221	N/A	N/A
3	USB Line	Borqs	US08C	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS	
1	TBD Line: Shielded, Detachable 1m;	
2	USB Line: Shielded, Detachable 1m;	



2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 a CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5 0.5 ~ 5	66 to 56	56 to 46
5~30	56 60	46 50

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 b CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)				
	Quasi-peak	Average			
0.15 ~ 0.5 0.5 ~ 30	79 73	66 60			

NOTE: 1.The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

2.1.2 TEST INSTRUMENTS

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date
WIDEBANDRADIO COMMUNICATION TESTER	Rohde&Schwarz	CMW500	169399	Jun.27,22	Jun.26,24
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Feb.25,22	Feb.24,24
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Feb.17,22	Feb.16,24
CABLE	Rohde&Schwarz	W61.01	N/A	Oct.27,23	Apr.26,24
CABLE	Rohde&Schwarz	W601	N/A	Oct.27,23	Apr.26,24

NOTE: 1. The test was performed in CE shielded room.



2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

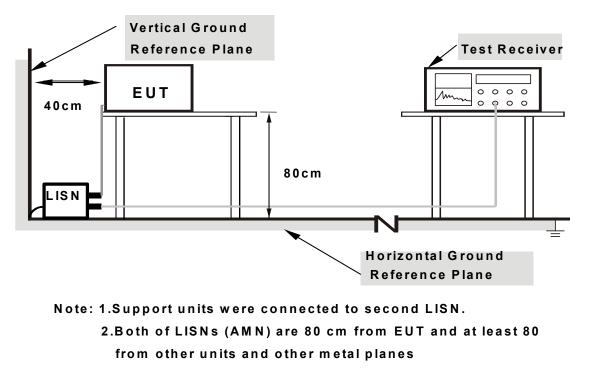
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.



2.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



2.1.7 TEST RESULTS

Worst case data:

TEST VOLTAGE	Input 120Vac 50Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Chao Wu

Rg	Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	CAV Level [dBµV]	CAV: AVG Limit [dBµV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.209	49.38	63.26	13.88	33.05	53.26	20.21	11.99	L1	9.000
1	0.632	42.43	56.00	13.57	32.13	46.00	13.87	11.75	L1	9.000
1	1.784	37.25	56.00	18.75	26.22	46.00	19.78	11.76	L1	9.000
1	4.092	36.05	56.00	19.95	25.49	46.00	20.51	11.79	L1	9.000
1	7.031	33.71	60.00	26.29	22.73	50.00	27.27	11.81	L1	9.000
1	14.897	29.01	60.00	30.99	17.24	50.00	32.76	11.85	L1	9.000

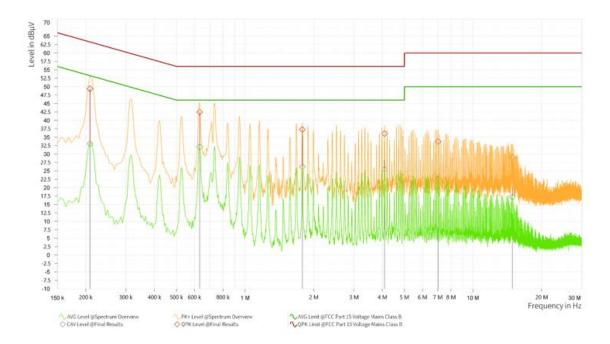
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. The emission levels of other frequencies were very low against the limit.

3. Margin value = Limit value- Emission level

4. Correction factor = Insertion loss + Cable loss + Attenuate

5. Emission Level = Correction Factor + Reading Value.





TEST VOLTAGE	EST VOLTAGE Input 120Vac 50Hz		Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Chao Wu

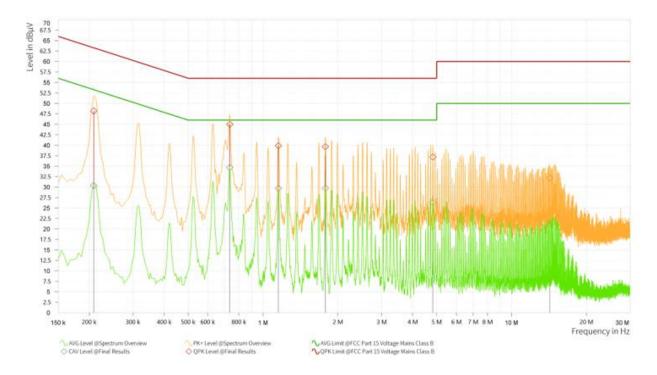
Rg	Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	CAV Level [dBµV]	CAV: AVG Limit [dBµV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.209	48.22	63.26	15.04	30.36	53.26	22.90	12.33	Ν	9.000
1	0.735	44.99	56.00	11.01	34.70	46.00	11.30	12.74	Ν	9.000
1	1.154	39.88	56.00	16.12	29.71	46.00	16.29	12.74	Ν	9.000
1	1.784	39.67	56.00	16.33	29.74	46.00	16.26	12.74	Ν	9.000
1	4.826	37.19	56.00	18.81	26.36	46.00	19.64	12.76	Ν	9.000
1	14.271	32.16	60.00	27.84	22.03	50.00	27.97	12.82	Ν	9.000

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. The emission levels of other frequencies were very low against the limit.
 - 3. Margin value = Limit value- Emission level

4. Correction factor = Insertion loss + Cable loss + Attenuate

5. Emission Level = Correction Factor + Reading Value.





2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dBµV/m)								
Frequencies (MHz)	FCC 15B Class A	FCC 15B Class B						
30-88	49	40						
88-216	53.5	43.5						
216-960	56	46						
960-1000	59.5	54						
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74						

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. QP detector shall be applied if not specified.



2.2.2 TEST INSTRUMENTS

Frequency range below 1GHz

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date
WIDEBANDRADIO COMMUNICATION TESTER		CMW500	169399	Jun.27,22	Jun.26,24
3m Semi-anechoic Chamber	ТDК	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.24,22	Nov.23,25
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
EMI Test Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Measurement Software	R&S	ELEKTRA	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
CABLE	R&S	W13.01	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24

Frequency range above 1GHz

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date
WIDEBANDRADIO COMMUNICATION TESTER		CMW500	169399	Jun.27,22	Jun.26,24
3m Fully-anechoic Chamber	ТDК	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.24,22	Nov.23,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
EMI Test Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Measurement Software	R&S	ELEKTRA	N/A	N/A	N/A
CABLE	R&S	W13.01	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24

NOTE: 1. The calibration interval of the above test instruments is 6 months or 24 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Chamber.

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2.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Limit value -Emission level.



<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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. The bore sight should be used during the test above 1GHz.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2.The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
- 3.For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4.Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 5.Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 6.Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- 7.Margin value = Limit value- Emission level.

2.2.4 DEVIATION FROM TEST STANDARD

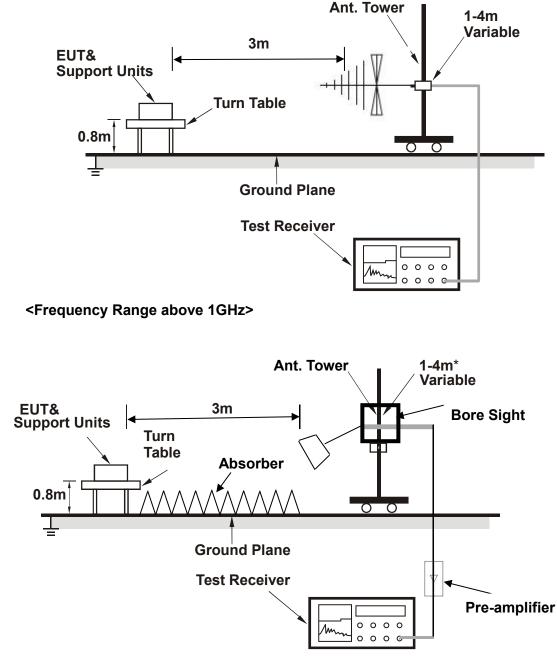
No deviation.

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2.2.5 TEST SETUP

<Frequency Range below 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.



2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

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2.2.7 TEST RESULTS

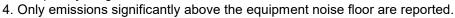
Worst case:

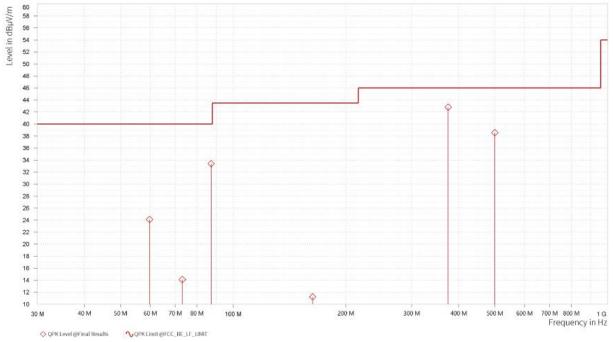
TEST VOLTAGE	Input 120Vac 50Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Chao Wu		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
Rg	Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]			
1	59.761	24.11	40.00	15.89	-11.87	Н	0.9	2	120.000			
1	73.121	14.11	40.00	25.89	-15.84	Н	0.9	2	120.000			
1	87.318	33.37	40.00	6.63	-14.93	Н	0.9	2	120.000			
1	162.978	11.22	43.50	32.28	-14.41	Н	355.7	2	120.000			
1	375.011	42.80	46.00	3.20	-5.52	Н	359	1	120.000			
1	500.009	38.55	46.00	7.45	-4.57	Н	0.9	2	120.000			

REMARKS: 1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.





Huarui 7layers High Technology (Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province



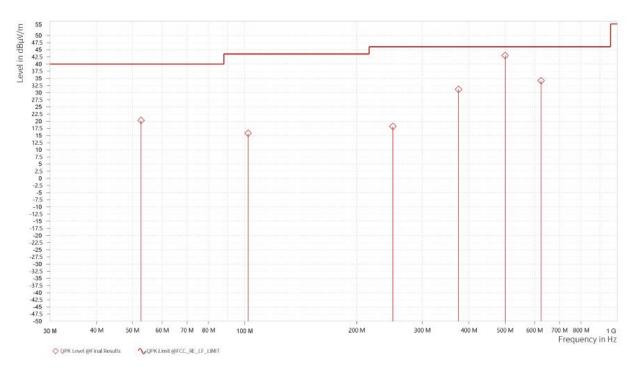
TEST VOLTAGE	Input 120Vac 50Hz	FREQUENCY RANGE	30-1000 MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH DETECTOR FUNCTION & RESOLUTION BANDWIDTH		Quasi-Peak, 120 kHz		
TESTED BY	Chao Wu				

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	1.2.1.0.000	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	52.707	20.27	40.00	19.73	-10.39	V	1	2	120.000
1	102.177	15.74	43.50	27.76	-12.16	V	359	2	120.000
1	250.014	18.14	46.00	27.86	-9.02	V	223.1	2	120.000
1	374.967	31.15	46.00	14.85	-5.52	V	135.6	1	120.000
1	500.009	42.99	46.00	3.01	-4.57	V	275.4	1	120.000
1	625.007	34.15	46.00	11.85	-3.07	V	275.4	1	120.000

REMARKS: 1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above the equipment noise floor are reported.



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BUREAU	Test Report No.: W7L-P231108W001EM01
ERITAS	

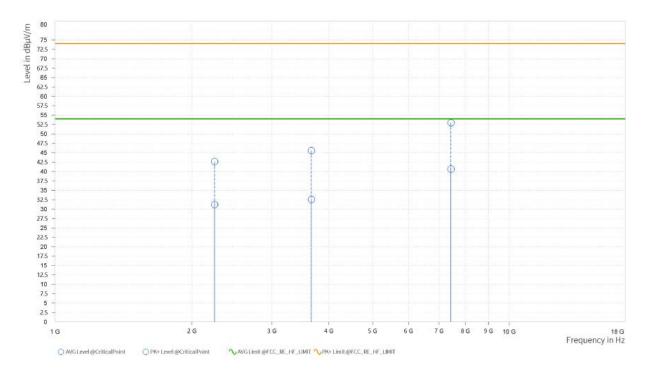
TEST VOLTAGE	Input 120Vac 50Hz	FREQUENCY RANGE	1-18 GHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz	
TESTED BY	Chao Wu			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	and the second second in	PK+ Limit [dBµV/m]	PK+ Margin [dB]		AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,243.000	42.62	74.00	31.38	31.21	54.00	22.79	6.96	H	359.1	1
1	3,665.500	45.56	74.00	28.44	32.52	54.00	21.48	9.63	Н	171.4	1
1	7,440.000	52.95	74.00	21.05	40.63	54.00	13.37	16.88	н	316. <mark>1</mark>	1

REMARKS: 1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.
- 4. Only emissions significantly above the equipment noise floor are reported.





TEST VOLTAGE	Input 120Vac 50Hz	FREQUENCY RANGE	1-18 GHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	Peak/Average, 1 MHz		
TESTED BY	Chao Wu			

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

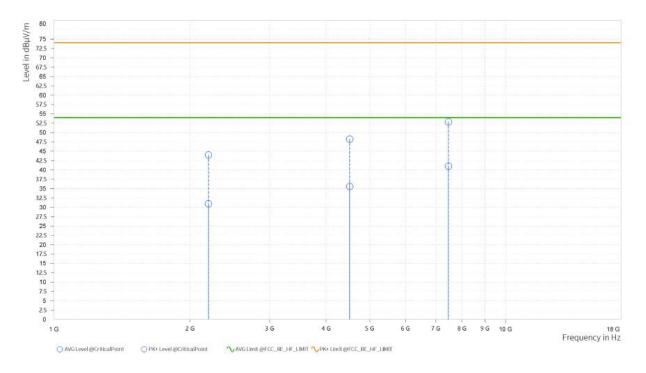
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	[100] S. M.	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,196.500	43.99	74.00	30.01	30.94	54.00	23.06	6.78	V	304.1	1
1	4,516.000	48.23	74.00	25.77	35.58	54.00	18.42	11.87	V	169	1
1	7,467.000	52.89	74.00	21.11	40.98	54.00	13.02	16.90	V	5	1

REMARKS: 1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

4. Only emissions significantly above the equipment noise floor are reported.





3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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