

FCC REPORT

Applicant:	PAX Technology Limited
Address of Applicant:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Equipment Under Test (E	EUT)
Product Name:	Countertop Payment Terminal
Model No.:	A80
Trade mark:	PAX
FCC ID:	V5PA80MBW
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.225
Date of sample receipt:	08 May, 2020
Date of Test:	09 May, to 28 Jul., 2020
Date of report issue:	05 Aug., 2020
Test Result:	PASS*

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

Authorized Signature:



Bruce Zhang 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 CCIS 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.

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	29 Jul., 2020	Original
01	04 Aug., 2020	Delete antenna photo,Delete C63.4 for page 4
02	05 Aug., 2020	Update the spurious emission for Chapter 6.2

Date: 05 Aug., 2020

Reviewed by: _______

Project Engineer

Date: 05 Aug., 2020



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.225 (a)	Pass
Spurious emissions	15.225(d)& 15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Frequency tolerance	15.225 (e)	Pass
Conducted Emission	15.207	Pass
Remark:		

1. Pass: The EUT complies with the essential requirements in the standard.

2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013

5 General Information

5.1 Client Information

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High- Tech industrial Park, Shenzhen, Guangdong, P.R.C.

5.2 General Description of E.U.T.

Product Name:	Countertop Payment Terminal
Model No.:	A80
Operation Frequency:	13.56MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	Induction Coil Antenna
Power supply:	Model: IS690
	Rechargeable Li-ion Battery DC7.4V, 720mAh
AC adapter:	Adapter(1)
	Model: ADS-18SG-09-2 09009G
	Input: AC100-240V, 50/60Hz, 0.6A
	Output: DC 9.0V, 1000mA
	Adapter(2)
	Model: G024A090100ZZUD
	Input: AC100-240V, 50/60Hz, 0.8A
	Output: DC 9.0V, 1000mA
	Adapter(3)
	Model: SW-0396A
	Input: AC100-240V, 50/60Hz, 0.5A
	Output: DC 9.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test mode and test samples plans

Transmitting mode:	Keep the EUT in transmit	Keep the EUT in transmitting mode with modulation						
Pre-Test Mode:								
CCIS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:								
Axis X Y Z								
Field Strength(dBuV/m)	Field Strength(dBuV/m) 82.33 83.59 82.74							

5.4 Description of Support Units

N/A

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366 Project No.: CCISE2005012



5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.9 Test Instrumentslist

Radiated Emission:							
Test Equipment	ent Manufacturer Model No. Serial No.		Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
3m SAC		0 == *0 == *0 ==	000	07-22-2017	07-21-2020		
3m SAC	SAEMC	9m*6m*6m	966	07-21-2020	07-20-2021		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021		
Discribed Antonno			250	06-22-2017	06-21-2020		
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2020	06-21-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021		
			4005	06-22-2017	06-21-2020		
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020		
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00044	03-07-2020	03-06-2021		
EMI Test Software	AUDIX	E3	V	ersion: 6.11091	9b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021		
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2020	03-06-2021		
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2020	03-06-2021		
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-07-2020	03-06-2021		
Signal Generator	R&S	SMR20	1008100050	03-07-2020	03-06-2021		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021		
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021		

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
Chielding Deem	ZhangChua Elastron	11.0(1)×4.0(1)(>>> 0(1)	CCIS0061	07-22-2017	07-21-2020		
Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CC150061	07-21-2020	07-20-2021		
EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2020	03-06-2021		
LISN	CHASE	MN2050D	CCIS0074	03-07-2020	03-06-2021		
	Dahda 8 Cabwarz		0400004/040	07-21-2017	07-20-2020		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021		
Coaxial Cable	CCIS	N/A	CCIS0086	03-07-2020	03-06-2021		
EMI Test Software	AUDIX	E3	Version: 6.110919b				



6 Test results and Measurement Data

6.1 Antenna requirement

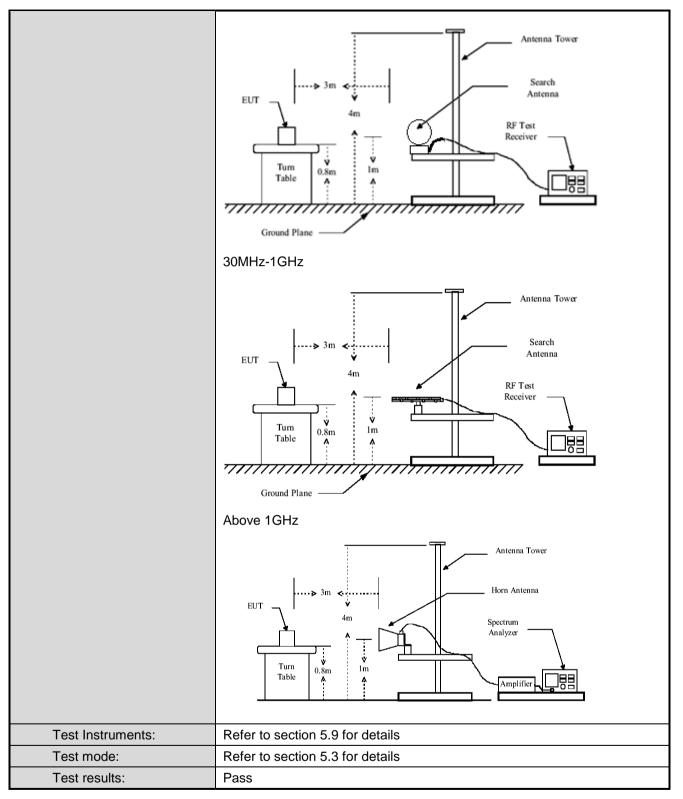
Standard requirement:	FCC Part15 C Section 15.203			
responsible party shall be us antenna that uses a unique c	be designed to ensure that no antenna other than that furnished by the ed with the device. The use of a permanently attached antenna or of an oupling to the intentional radiator, the manufacturer may design the unit so a replaced by the user, but the use of a standard antenna jack or electrical			
E.U.T Antenna:				
The EUT make use of an Induction coil antenna.				



6.2 Radiated Emission

TestFrequencyRange: 9 kHz to 1000MHz Test site: Measurement Distance: 3m(Semi-Anechoic Chamber) Receiver setup: 9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 30MHz-10Hz Quasi-peak 200Hz 600Hz Quasi-peak Value 30kHz Quasi-peak Value 30MHz-10Hz Quasi-peak 120kHz 30kHz Quasi-peak Value Above 10Hz Quasi-peak 12kHz 30kHz Quasi-peak Value Above 10Hz Quasi-peak 12kHz 30kHz Quasi-peak Value 12kHz 13kHz 13kHz 13kHz 13kHz 13kHz 12kHz 12kHz 13kHz 13kHz <td< th=""><th>Test Requirement:</th><th>FCC Part15 C S</th><th colspan="6">FCC Part15 C Section 15.225(a) and 15.209</th></td<>	Test Requirement:	FCC Part15 C S	FCC Part15 C Section 15.225(a) and 15.209						
Receiver setup: Frequency Detector RBW VBW Remark 00412 SkHz-150Htz Quasi-peak 200Hz 600Hz Quasi-peak Value 150KHz-30MHz Quasi-peak 120kHz Quasi-peak Value Quasi-peak Value 200Hz 16Hz Peak 120kHz Quasi-peak Value Above 1GHz Peak 14Hz 30HHz Peak Value Limit: Frequency Limit (UV/m @ 30m) Limit (dV/m @ 30m) Limit (dV/m @ 30m) 13.400Hz-13.557MHz 13.10MHz-13.507MHz 334 90.5 13.400Hz-13.570HHz 13.400Hz-13.570Hz 13.400Hz-13.570Hz 13.400Hz-13.570Hz 13.400Hz 13.400Hz-13.570Hz 13.400Hz 13.400Hz 13.400Hz-13.570Hz 13.400Hz 13.400Hz-13.570Hz 13.400Hz	TestFrequencyRange:	9 kHz to 1000MHz							
White Status White Quasi-peak Quasi-peak Quasi-peak Value Value	Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)							
Isolate Isolation Isolation <thisolation< th=""> <thisolation< th=""> <thiso< td=""><td>Receiver setup:</td><td colspan="5">Frequency Detector RBW VBW Remark</td><td>Remark</td></thiso<></thisolation<></thisolation<>	Receiver setup:	Frequency Detector RBW VBW Remark					Remark		
30MHz-1GHz Quasi-peak 120kHz 300KHz Quasi-peak Value Above 1GHz Peak 11Mtz 3MHz Peak Value Limit Frequency Limit (UV/m @ 30m)		9kHz-150kHz	0kHz Quasi-peak		200Hz	600Hz		Quasi-peak Value	
Above 1GHz Peak IMHz 3MHz Peak Value Limit (Field strength of the fundamental signal) 13.553MHz-13.557MHz & 1584 124.0 13.410MHz-13.553MHz & 334 90.5 13.110MHz-13.3410MHz & 106 80.5 13.557MHz-13.710MHz & 106 80.5 13.110MHz-13.3410MHz & 106 80.5 13.110MHz-14.010MHz & 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(hh) of this part. Limit: Frequency (MHz) Limit (UV/m @3m) Distance (m) (Spurious Emissions) 0.490-1.705 24000F(kHz) 300 0.490-1.705 24000F(kHz) 30 30 17.05-30 30 30 30 17.05-30 30 30 30 17.05-30 30 3 3 216-960 200 3 360 degrees todetermine the position of the highest radiation. The EUT was placed on the top of a rotating table 0.8 meters above the ground ta 3 meters amounted on the top of a variable-height antenna tower. 6. The attenna was		150kHz-30MHz	Quasi-p	eak	9kHz	30)kHz	Quasi-peak Value	
Limit: (Field strength of the fundamental signal) Frequency Limit (uV/m @30m) Limit (dBuV/m @3m) 13.557MHz-13.667MHz 15848 124.0 13.567MHz-13.710MHz 334 90.5 13.567MHz-13.710MHz 334 90.5 13.567MHz-13.710MHz 106 80.5 13.100Hz-14.010MHz 106 80.5 13.101Mz-13.4100MHz 106 80.5 13.101Mz-13.4100MHz 106 80.5 13.101Mz-13.4100MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance defined in §15.3(ht) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) Frequency (MHz) Limit (uV/m @3m) Distance (m) 0.099-0.490 24000F(kHz) 30 30 30-82-16 150 3 216-960 200 30-98 100 3 360 degrees todetermine the position of the highest radiation. b. The EUT was placed on		30MHz-1GHz	Quasi-p	eak	120kHz 30		0KHz	Quasi-peak Value	
(Field strength of the fundamental signal) 13.553MHz-13.567MHz 15848 124.0 13.410MHz-13.570MHz 334 90.5 13.110MHz-13.710MHz 334 90.5 13.110MHz-13.410MHz & 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(thi) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) 0.099-0.490 24000F(kHz) 300 0.490-1.705 24000F(kHz) 300 0.490-1.705 24000F(kHz) 30 216-960 200 3 216-960 200 3 216-960 200 3 216-960 3 30 30 30 30 30 30 30 216-960 200 3 Above 1GHz 500 3 216-960 200 3 216-960 3 30 30 30 30 30 3 30 30 3 3 216-960 2		Above 1GHz	Peak	(1MHz	31	MHz	Peak Value	
fundamental signal) 13.410MHz-13.553MHz & 334 90.5 13.567MHz-13.710MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/dcade) in conjunction with the slant-range distance defined in §15.3(h) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.490 2400/F(kHz) 300 0.009-0.490 2400/F(kHz) 300 30 1.705-30 30 30 30 3.0-88 100 3 88-216 150 1216-960 200 3 3 80-216 216-960 200 3 30 30 216-960 200 3 3 80-26 errors above the groundat a 3 meters saway from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. Test Procedure: a The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. Test Procedure: a The antenna height is varied from one meter to four meters abo	Limit:	Frequency	y	Li	imit (uV/m @30r	n)	Lim	it (dBuV/m @3m)	
13.567MHz-13.710MHz 334 90.5 13.110MHz-13.410MHz & 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(hh) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 1.705-30 30 30 3.0-88 100 3 88-216 150 3 216-960 200 3 Above 1GHz 500 3 Above 1GHz 500 3 216-960 200 3 206 degrees todetermine the position of the highest radiation. 50 0. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meters savay from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 0. The each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned from 0 degrees to 360 degrees to find the maximum reading. 0. For each suspected emission, the EUT in peak mode was 10dB lower than the limits pecified, the testing couid be stopped and the peak values of the EUT wouldbe reported. Oth	(Field strength of the	13.553MHz-13.5						124.0	
13.36/MH2-13.710MH2 106 80.5 13.710MH2-14.010MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(ht) of this part. Limit: Frequency (MH2) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.490-1705 24000/F(kH2) 30 0.490-1705 24000/F(kH2) 30 30 30-88 100 3 3 216-960 200 3 3 2216-960 200 3 3 Above 1GHz 500 3 3 Degress todetermine the position of the bighest radiation. b. The EUT was placed on the top of a variable-bight antenna tower. 0. The attenna 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. 0. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the notatabletable was turned from 0 degrees to 360 degrees to find the maximum reading.	fundamental signal)	13.410MHz-13.55	3MHz &		334			90.5	
13.710HHz-14.010HHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in \$15.3(th) of this part. Limit: Frequency (MHz) Limit (UV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.4900 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 30 30-88 100 3 3 216-960 200 3 3 216-960 200 3 3 Above 1GHz 500 3 3 30 dagrees todetermine the position of the highest radiation. 5 The EUT was set3 meters away from the inteference-receiving antenna, which was mounted on the top of a variable-height antenna tower. C 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. d. For each suspected emission, the EUT was arranged to its worst case and thenthe anterna was tuned to heights from 1 meter to 4 meters and the rotatabletable was turne		13.567MHz-13.7	10MHz		004			50.5	
13.7/DMH2-14.0/DMH2					106			80.5	
Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(ht) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 30 1.705-30 30 30 30 30-6-88 100 3 30 216-960 200 3 3 216-960 200 3 3 Above 1GHz 500 3 3 216-960 200 3 3 200 degrees todetermine the position of the highest radiation. b. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emissio			10MHz		100			00.0	
(Spurious Emissions) 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 1GHz 500 3 Construct a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine 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 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. 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 rotatabletable was tuned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limits pecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified an		than specified, the distance by using 40 dB/decade) in this part.	e field strei the squar conjunctio	ngth r e of a n with	esults shall be e n inverse linear o n the slant-range	xtrapo distan distai	blated to ce extra	o the specified polation factor (i.e., ned in §15.3(hh) of	
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1.705-30 30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 1GHz 500 3 a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine 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 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. 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 rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limits pecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet.	(Spurious Emissions)								
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	Test setup:	9kHz-30MHz							







Measurement Data:

Field Strength of fundamental signal:

roduct Name:	Countertop Paym	nent Terminal	Product Mod	el:	A80	
est By:	YT		Test mode:		NFC Tx mode	
est Voltage:	AC 120/60Hz		Environment	::	Temp: 24 ℃	Huni: 57%
130 Level (dBuV	m)					
120						
1.						
100						
			1		15.225 POWE	RLIMIT
80						
60	~	221	hn			
	$\sim N$		1.4	V	\sim	
40				_	~ Lm	\sim
	w				V	2004
20						
⁰ 13.11 13.	2	13.5		220		14.01
		Frequence	cy (MHz)			
	ReadAntenna C	able Aux Pr	eamn	Limit (Over	
				T. T		
Freq	Level Factor	Loss Factor Fa	CTOP LEVEL	Line Li	imit Kemark	
Freg	Level Factor	Loss Factor Fa 	dB dBuV/m		dB	
	Level Factor 3 dBuVdB/m	<u>ab</u>		dBuV/m		



Spurious Emissions: Test frequency range: 9 kHz- 30 MHz

	me:	Count	ertop Payn	nent Terr	ninal	Prod	uct Mode	l:	A80		
est By:		ΥT				Test	mode:		NCF Tx	mode	
est Freque	ency:	150 k	Hz ~ 30 Mł	łz		Pola	rization:		Vertical		
Fest Voltag	e:	AC 12	20/60Hz			Envi	ronment:		Temp: 24	4°C Huni: 5	7%
150 Level	(dBuV/m)										
140											
	_										
120											
100											_
80										FCC-9K-30M	Λ
60	1	2 3.					~]				_
to many the	1 hours al	Mynhol in	Managements Vari	5 minutes		6					
40		a de la ma	AL MAN	WA I	Contraction in the set	6 Marannan	Whenterstrand	maken manun	مىرىدىدى مەرىدىيە يەلىد	montheman	
20											
0											
0.009	.02	.05	.1	.2		5 1 ncy (MHz)	2		5	10 20	30
						- 3949 - 94.					
		Read	Antenna			Preamp		Limit	Over Limit		
	Freq		Factor	Loss	Factor	Factor	TEAST	LINC	TTULE C	Vemark	
- 12000000000000000000000000000000000000	Freq MHz		Factor	Loss dB	Factor dB		dBuV/m			and the second second	-
	MHz	Level dBuV	Factor 	<u>a</u> b	<u>d</u> B	<u>a</u> b	dBuV/m	dBuV/m	<u>a</u> B		-
 1 2	MHz 0.016 0.031	Level dBuV 39.05 34.61	Factor <u>dB/m</u> 20.38 20.24	dB 0.01 0.02	dB 0.00 0.00	<u>d</u> B 0.00 0.00	dBuV/m 59.44 54.87	dBuV/m 123.71 117.65	-64.27 -62.78	 Peak Peak	-
 1 2 3 4	MHz 0.016 0.031 0.045	Level dBuV 39.05 34.61 31.05	Factor <u>dB/m</u> 20.38 20.24 20.52	0.01 0.02 0.02	 dB 0.00 0.00 0.00	 dB 0.00 0.00 0.00	dBuV/m 59.44 54.87 51.59	dBuV/m 123.71 117.65 114.48	 dB -64.27 -62.78 -62.89	Peak Peak Peak Peak	-
1 2 3 4 5	MHz 0.016 0.031	Level dBuV 39.05 34.61 31.05 26.06	Factor <u>dB/m</u> 20.38 20.24	dB 0.01 0.02	dB 0.00 0.00	 dB 0.00 0.00 0.00 0.00	dBuV/m 59.44 54.87 51.59	dBuV/m 123.71 117.65 114.48 113.14	-64.27 -62.78 -62.89 -66.48	Peak Peak Peak Peak Peak	-

2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.



roduct Name:	Countertop Payr	nent Termin	al	Produ	ct Model:		A80	
est By:	YT			Test m	node:		NFC Tx mo	ode
est Frequency:	150 kHz ~ 30 MI	Ηz		Polaria	zation:		Horizontal	
est Voltage:	AC 120/60Hz			Enviro	onment:	-	Temp: 24 (C Huni: 5
150 Level (dBuV/m)								
140								
120		_						
100								
80							FC	C-9K-30M
60 1 2	3		_					
annum hand	history		5 6					
40	TANK IN THINK	m	mar h	monum	where and			
20						an a	weinerer and	Thereinstructure
0.009 .02	.05 .1	.2 Fre	.5 equency (1 MH7)	2	5	10	20 30
			63					
Freq	ReadAntenna Level Factor			Preamp Factor	Level	Limit Line		Remark
MHz				<u></u>	dBuV/m	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		
	18-1898 - MARA							
1 0.016 2 0.027	35.79 20.38 36.40 20.22	$0.01 \\ 0.01$	0.00 0.00	0.00 0.00			-67.53	
3 0.054	34.28 20.58	0.02	0.00	0.00	54.88	113.00	-58.12	Peak
4 0.168 5 0.352	29.98 20.26 22.31 20.63	0.03 0.06	0.00 0.00	0.00 0.00	43.00		-52.83 -53.68	
6 0.546	21.83 20.76	0.10	0.00	0.00	42.69	72.87	-30.18	Peak



Test frequency range: 30MHz-1000MHz

roduct Name:	Countertop F	Payment Te	rminal	Р	roduct M	odel:	A80		
est By:	YT			Т	est mode	:	NFC	Tx mode	
est Frequency:	30 MHz ~ 1	GHz		P	olarizatio	n:	Verti	cal	
est Voltage:	AC 120/60H	z		E	nvironme	ent:	Tem	p: 24℃	Huni: 57%
80 Level (dBuV/n	<u>)</u>								
70									
60		_							
							FCC PA	RT15 CLA	SS B
50				- 12-					
40	83.					5		6	
30	MA		4			Mar		Ŵ.	
MW N	/ myn			WWWYAL L	MAN	me my	down rolling	Muhamaka	walk
20		June Mary M	runty	Mu	le anno 1		4 101		
10		WWW W							
030	50	100		200			500		1000
0	50	100	Freque	200 ncy (MHz)	ii.		500		1000
030	50 ReadAntenna			ncy (MHz)		Limit	500 Over		1000
		a Cable	Aux			Limit Line	Over	Remark	1000
	ReadAntenna	a Cable r Loss	Aux	n <mark>cy (MHz)</mark> Preamp Factor		Line	Over	Remark	1000
Freq 	ReadAntenna Level Factor dBuV dB/m 50.31 12.76	a Cable r Loss m dB 6 0.35	Aux Factor dB 0.00	ncy (MHz) Preamp Factor dB 29.91	Level dBuV/m 33.51	Line dBuV/m 40.00	Over Limit dB -6.49		1000
Freq 	ReadAntenna Level Factor dBuV dB/m 50.31 12.76 55.30 11.51 56.08 11.04	a Cable r Loss m dB 6 0.35 1 0.41 1 0.42	Aux Factor dB 0.00 0.00 0.00	ncy (MHz) Preamp Factor 29.91 29.80 29.78	Level dBuV/m 33.51 37.42 37.76	Line <u>dBuV/m</u> 40.00 40.00 40.00	Over Limit dB -6.49 -2.58 -2.24	QP QP QP	1000
Freq 	ReadAntenna Level Factor dBuV dB/m 50.31 12.76 55.30 11.51	a Cable r Loss n dB 6 0.35 1 0.41 4 0.42 1 0.64	Aux Factor dB 0.00 0.00	ncy (MHz) Preamp Factor 29.91 29.80 29.78	Level dBuV/m 33.51 37.42	Line <u>dBuV/m</u> 40.00 40.00	Over Limit -6.49 -2.58 -2.24 -13.78	QP QP QP QP QP	1000

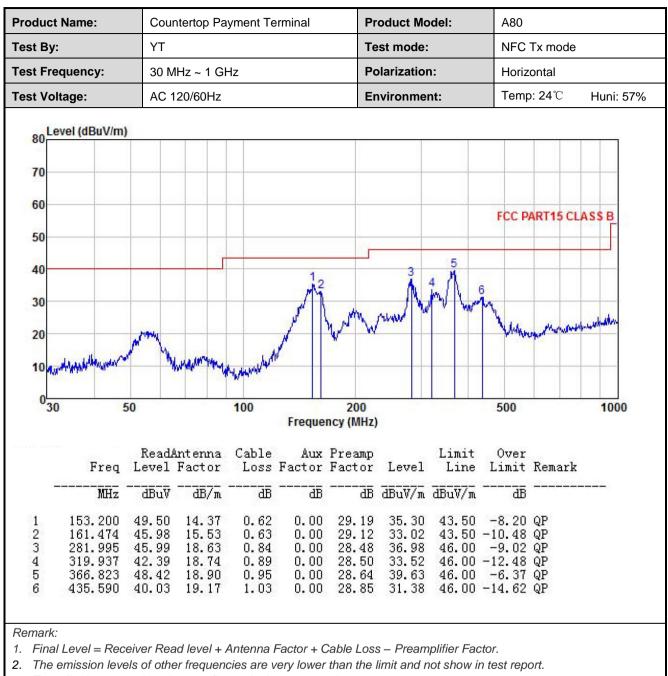
Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. Test all adapters and modes to reflect only the worst mode.





3. Test all adapters and modes to reflect only the worst mode.

6.3 20dB Bandwidth

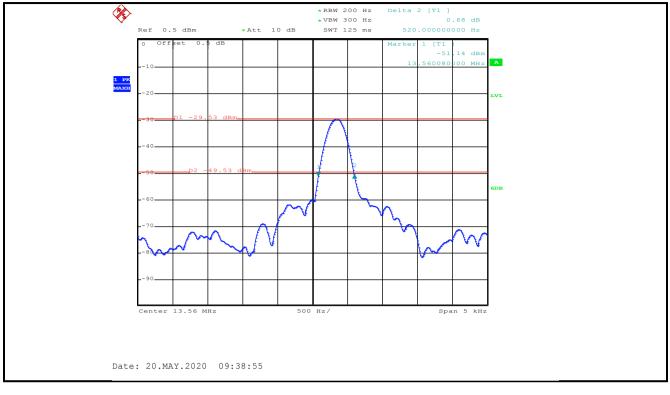
Test Requirement:	FCC Part15 C Section 15.215 (c)
Receiver setup:	RBW=200Hz, VBW=300Hz, detector: Peak
Limit:	The fundamental emission be kept within at least the central 80% of the permitted band
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. Read 20dB bandwidth.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

20dB bandwidth (kHz)	Limit (kHz)	Results
0.520	11.2	Passed
Note: For 13.56MHz, permitted Band is	14 kHz, so the Limit is 11.2 kHz.	



Test plot as follows:





6.4 Frequency Tolerance

Test Requirement:	FCC Part15 C Section 15.225 (e)
Receiver setup:	RBW=200Hz, VBW=300Hz, span=14kHz, detector: Peak
Limit:	±0.01% of the operating frequency
Test mode:	Transmitting mode
Test Procedure:	Frequency stability V.S. Temperature measurement
	 The equipment under test was powered by a fresh battery. RF output was connected to spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached Frequency stability V.S. Voltage measurement Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Test setup:	15%) and endpoint, record the maximum frequency change.
	Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



Measurement Data:

a) Frequency stability V.S. Temperature measurement

Voltage (Vdc)	Temperature (℃)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	-20	0.078	0.0058	±0.01	Pass
	-10	0.085	0.0063	±0.01	Pass
	0	-0.074	-0.0055	±0.01	Pass
7.40	+10	0.079	0.0058	±0.01	Pass
7.40	+20	-0.066	-0.0049	±0.01	Pass
	+30	0.084	0.0062	±0.01	Pass
	+40	0.067	0.0049	±0.01	Pass
	+50	-0.036	-0.0027	±0.01	Pass

b) Frequency stability V.S. Voltage measurement

Temperature (℃)	Voltage (Vdc)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	6.66	-0.085	-0.0063	±0.01	Pass
25.0	7.40	0.071	0.0052	±0.01	Pass
	8.14	0.092	0.0068	±0.01	Pass



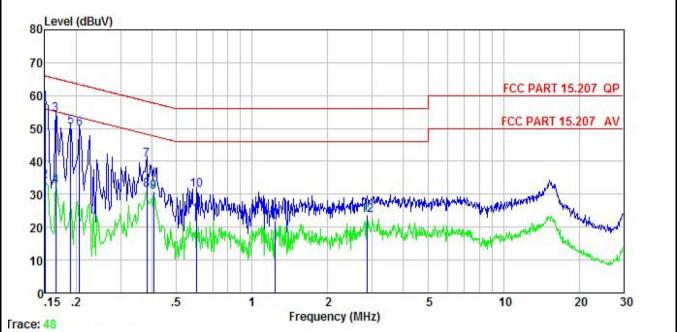
6.5 Conducted Emission

Test Requirement:	FCC Part15 B Section 15	.207	
TestFrequencyRange:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz	2	
Limit:	· · · · ·		(dBµV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
	* Decreases with the loga	rithm of the frequency.	
Test setup:	Reference	Plane	
	LISN 40cm AUX Equipment E.U.T Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Neto Test table height=0.8m	EMI Receiver	power
Test procedure	 50ohm/50uH coupling The peripheral devices a LISN that provides a termination. (Please re photographs). Both sides of A.C. line interference. In order to positions of equipment 	ation network (L.I.S.N.). impedance for the meas are also connected to the 500hm/50uH coupling in fer to the block diagram are checked for maximus of find the maximum emis	It provide a suring equipment. he main power through npedance with 500hm of the test setup and um conducted ssion, the relative cables must be changed
Test Instruments:	Refer to section 5.9 for de	etails	
Test mode:	Refer to section 5.3 for de	etails	
Test results:	Pass		



Measurement Data:

Product name:	Countertop Payment Terminal	Product model:	A80
Test by:	YT	Test mode:	NFC Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
<u></u>	MHz	dBu∛	<u>ab</u>	<u>ab</u>	<u>4</u> B	 dBu∛		هه	
1	0.150	47.63	-0.57	10.78	-0.05	57.79	66.00	-8.21	QP
2	0.150	23.65	-0.57	10.78	-0.05	33.81	56.00	-22.19	Average
3	0.166	44.12	-0.58	10.77	-0.09	54.22	65.16	-10.94	QP
1 2 3 4 5 6 7 8 9 10	0.166	22.45	-0.58	10.77	-0.09	32.55	55.16	-22.61	Average
5	0.190	40.59	-0.59	10.76	-0.14	50.62	64.02	-13.40	QP
6	0.206	39.83	-0.59	10.76	-0.17	49.83	63.36	-13.53	QP
7	0.381	29.99	-0.49	10.72	0.31	40.53	58.25	-17.72	QP
8	0.381	20.67	-0.49	10.72	0.31	31.21	48.25	-17.04	Average
9	0.406	20.09	-0.48	10.72	0.36	30.69	47.73	-17.04	Average
	0.601	21.25	-0.48	10.77	-0.38	31.16	56.00	-24.84	QP
11	1.236	11.26	-0.59	10.90	0.22	21.79	46.00	-24.21	Average
12	2.869	13.42	-0.44	10.92	-0.22	23.68	46.00	-22.32	Average

Notes:

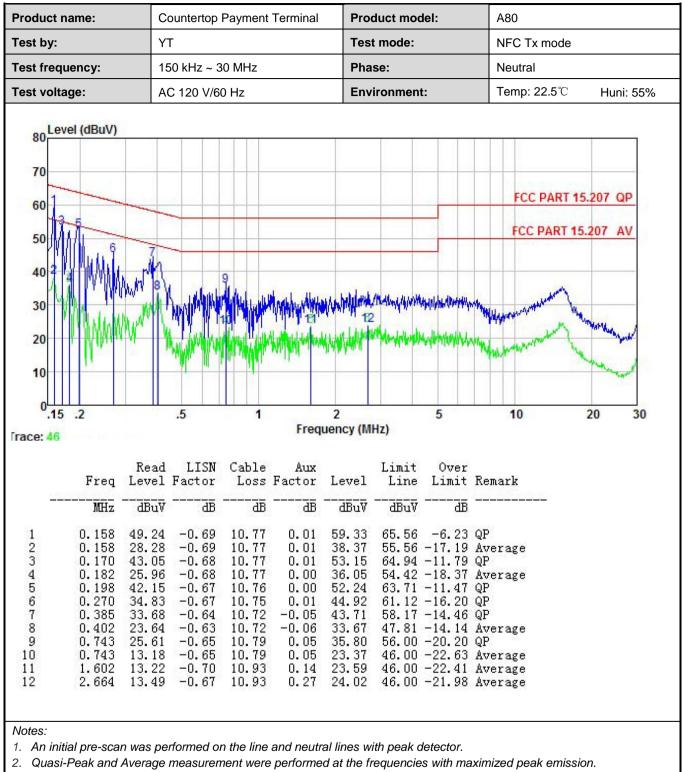
1. An initial pre-scan was performed on the line and neutral lines with peak detector.

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. Test all adapters and modes to reflect only the worst mode.





3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

4. Test all adapters and modes to reflect only the worst mode.



8 EUT Constructional Details

Reference to the test report No.: CCISE200501201

-----End of report-----