

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:	Mobile Payment Terminal
Model No.:	D200 T
Trade mark:	PAX
FCC ID:	V5PD200HS
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.225
Date of sample receipt:	22 Sep., 2020
Date of Test:	22 Sep., to 13 Oct., 2020
Date of report issue:	14 Oct., 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 CCISproduct 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 orfalsification 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	14 Oct., 2020	Original

 Tested by:
 Mike.OU
 Date:
 14 Oct., 2020

 Test Engineer
 Date:
 14 Oct., 2020

 Reviewed by:
 Winner thang
 Date:
 14 Oct., 2020

 Project Engineer
 Date:
 14 Oct., 2020

Project Engineer

Date: 14 Oct., 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					

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 C63.4-2014
rest metriou.	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:	Mobile Payment Terminal	
Model No.:	D200 T	
Operation Frequency:	13.56MHz	
Channel numbers:	1	
Modulation type:	ASK	
Antenna Type:	Internal Antenna	
Power supply:	Rechargeable Li-ion Battery DC3.7V-1900mAh	
AC adapter: Adapter(1):		
	Model: HKC0055010-2D	
	Input: AC100-240V, 50/60Hz, 0.2A	
	Output: DC 5.0V, 1000mA	
	Adapter(2):	
	Model: A18A-050100U-US2	
	Input: AC100-240V, 50/60Hz, 0.2A	
	Output: DC 5.0V, 1000mA	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

5.3 Test mode

Transmitting mode:	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)	63.69 65.32 64.58						
Final Test Mode:							
According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo).							

5.4 Description of Support Units

Manufacturer	Description	Description Model		FCC ID/DoC
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)

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: https://portal.a2la.org/scopepdf/4346-01.pdf

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: <u>http://www.ccis-cb.com</u>



5.9 Test Instrumentslist

Radiated Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021		
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2020	06-21-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021		
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	Cal.Due date		
		Model No.	inventory No.	(mm-dd-yy)	(mm-dd-yy)		
Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2020	07-21-2021		
EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2020	03-06-2021		
LISN	CHASE	MN2050D	CCIS0074	03-07-2020	03-06-2021		
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

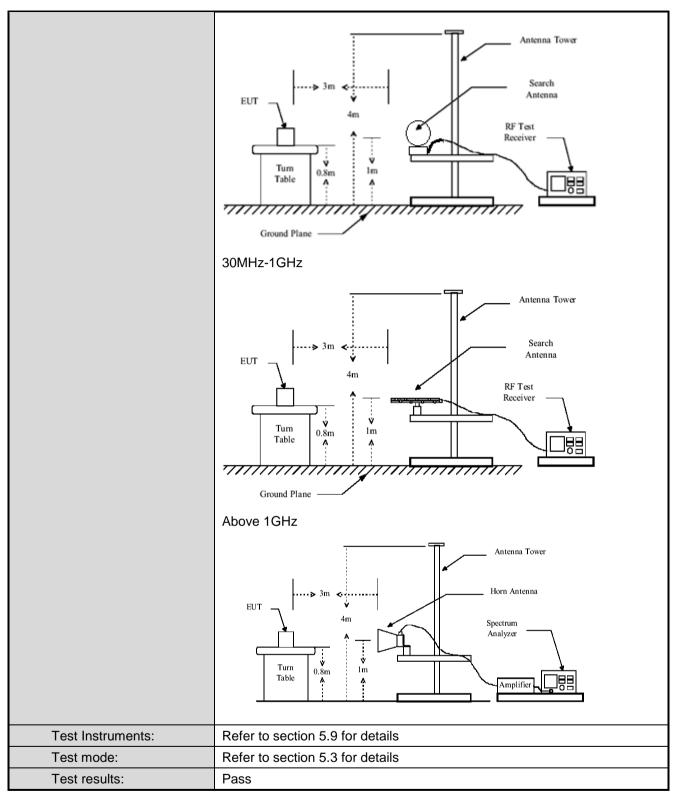
Standard requirement:	dard requirement: FCC Part15 C Section 15.203						
responsible party shall be use antenna that uses a unique co	be designed to ensure that no antenna other than that furnished by the ed with the device. The use of a permanently attached antenna or of an oupling to the intentional radiator, the manufacturer may design the unit so e replaced by the user, but the use of a standard antenna jack or electrical						
E.U.T Antenna:							
The EUT make use of an Indu	uction 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 150kHz:20MHz Quasi-peak 200Hz 600Hz Quasi-peak Value 30kHz Quasi-peak Value 150kHz:20Hz Quasi-peak 120kHz 30kHz Quasi-peak Value	Test Requirement:	FCC Part15 C S	Section 15	.225	(a) and 15.209				
Receiver setup: Frequency Detector RBW VBW Remark 9kHz-150Hz Quasi-peak 200Hz 600Hz Quasi-peak Value 150KHz-30MHz Quasi-peak 120kHz Quasi-peak Value Quasi-peak Value 200Hz 16Hz Quasi-peak 120kHz Quasi-peak Value Limit: Frequency Limit (uV/m @ 30m) Limit (dBU/m @ 30m) 13.450MHz-13.567MHz 13.557MHz-13.710MHz 334 90.5 13.410MHz-13.567MHz 13.450MHz-13.710MHz 13.110MHz-13.513.710MHz 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 extrapolation factor (i.e., 40 dBrdecade) in conjunction with the sint-range distance defined in §15.3(th) of this part. Limit: (Spurious Emissions) 0.009-0.490 2400/F(kHz) 30 0.009-0.490 2400/F(kHz) 30 30 30 17.05-30 30 30 30 30 216-960 200 3 3 30 30 degrees todetermine the posind of the highest radiation. 5	TestFrequencyRange:	9 kHz to 1000MHz							
9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 30MHz Quasi-peak 9kHz 300Hz Quasi-peak Value Quasi-peak Value 30MHz 120kHz 300Hz Quasi-peak Value Quasi-peak Value Above 10Hz Peak 1MHz 30MHz Peak Value 13.553MHz 13.557MHz 15848 124.0 13.553MHz 13.557MHz 334 90.5 13.110MHz 13.657MHz 334 90.5 13.110MHz 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 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 which is closer than specified. The field strength results shall be weak strend to the specified distance by using the square of an inverse linear distance which is closer than specified. The field strength results shall be weak strend to the specified distance by using the square of an inverse linear distance which is closer than specified. The field strength results shall be weak strend to the specified distance by using the square of an inverse linear distance which is closer than spectresults hall be develope the specified and the spec	Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)							
Isolate Isolation Isolation <thisolation< th=""> <thisolation< th=""> <thiso< td=""><td>Receiver setup:</td><td>Frequency</td><td>Detecto</td><td>or</td><td>RBW</td><td>V</td><td>BW</td><td>Remark</td></thiso<></thisolation<></thisolation<>	Receiver setup:	Frequency	Detecto	or	RBW	V	BW	Remark	
30MHz-1GHz Quasi-peak 120kHz 30MHz Quasi-peak Value Above 1GHz Peak 1MHz 3MHz Quasi-peak Value Peak Value (Field strength of the fundamental signal) 13.553MHz-13.557MHz 15848 124.0 13.3677MHz-13.573MHz & 13.410MHz-13.553MHz & 13.5677MHz-13.710MHz 334 90.5 13.5677MHz-13.710MHz 334 90.5 13.110MHz-13.410MHz & 13.5677MHz-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/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) 300 30 30.48 100 3 32.6 216-960 200 3 30 30 30.4 30.4 30.4 30.4 30.4 30.4 30.6 3<		9kHz-150kHz	Quasi-pe	eak	200Hz	60	0Hz	Quasi-peak Value	
Above 1GHz Peak IMHz 3MHz Peak Value Limit (Vim (23m)) Limit (UVm (23m)) Limit (dBuVm (23m)) 13.553MHz13.557MHz 13.44 90.5 13.410MHz-13.553MHz & 334 90.5 13.567MHz13.710MHz 334 90.5 13.110MHz-13.310MHz & 106 80.5 80.5 13.710MHz-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 (23m) Distance (m) (Spurious Emissions) 0.490-1.705 24000/F(kHz) 300 0.099-0.490 2400/F(kHz) 30 30 1.705-30 30 30 30 216-960 200 3 3 216-960 200 3 360 dggres todetermine the position of the highest radiation. 5 The EUT was placed on the top of a variable-height antenna tower. 6. The antenna height is varied from one meter to four meters above the ground to determine the maximum value		150kHz-30MHz	Quasi-pe	eak	9kHz	30)kHz	Quasi-peak Value	
Limit: (Field strength of the fundamental signal) Frequency Limit (uV/m @30m) Limit (dBuV/m @33m) 13.553MHz-13.567MHz 15848 124.0 13.557MHz-13.710MHz 334 90.5 13.567MHz-13.710MHz 334 90.5 13.100MHz-13.4100MHz 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 extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(ht) of this part. Limit: (Spurious Emissions) Frequency (MHz) Limit (uV/m @3m) Distance (m) 0.009-0.490 24000F(kHz) 30 30 30-88 100 3 32 216-960 200 3 32 30-88 100 3 32 216-960 200 3 32 30-98 1000 3 </td <td></td> <td>30MHz-1GHz</td> <td>Quasi-pe</td> <td>eak</td> <td>120kHz</td> <td>300</td> <td>OKHz</td> <td>Quasi-peak Value</td>		30MHz-1GHz	Quasi-pe	eak	120kHz	300	OKHz	Quasi-peak Value	
(Field strength of the fundamental signal) 13.553MHz-13.567MHz 15848 124.0 13.410MHz-13.567MHz 334 90.5 13.110Hz-13.710MHz 334 90.5 13.110Hz-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/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) 0.099-0.490 24000F(kHz) 30 30 0.490-1.705 24000F(kHz) 30 30 3.0+28 100 3 36 2.16-960 200 3 30 3.0+28 100 3 36 2.16-960 200 3 30 30 3.0+28 100 3 36 3216 30 3.0+28 100 3 36 3216 30 30 30 30 30 30 30 30 30 30 30 30 <td></td> <td>Above 1GHz</td> <td>Peak</td> <td></td> <td>1MHz</td> <td>31</td> <td>MHz</td> <td>Peak Value</td>		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 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) 300 30 0.490-1.705 24000/F(kHz) 300 30 0.490-1.705 24000/F(kHz) 300 30 1.706-30 30 30 30 30 1.706-50 200 3 3 8+216 150 3 1.216-960 200 3 3 360 degrees todetermine the position of the highest radiation. 5 The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 6 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the high strength antenna tower. 7 The test-receiver system was set to Peak Detect Function and Specified.Bandwidth with Maximum Hold Mode. <td< td=""><td>Limit:</td><td>Frequency</td><td>y</td><td>Li</td><td>imit (uV/m @30n</td><td>n)</td><td>Lim</td><td>it (dBuV/m @3m)</td></td<>	Limit:	Frequency	y	Li	imit (uV/m @30n	n)	Lim	it (dBuV/m @3m)	
13.567MHz-13.710MHz 334 90.5 13.110MHz 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) 0.009-0.490 2400/F(kHz) 30 1.705-30 30 30 3.88-216 150 3 1.705-30 30 30 3.88-216 150 3 216-960 200 3 Above 1GHz 500 3 3. 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, whichwas 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 mode was 10dB lower than the initispecified, then testing could be stopped and the peak values of the	(Field strength of the				15848			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 defined in §15.3(hh) of this part. Limit: Frequency (MHz) Limit (UV/m @3m) Distance (m) (Spurious Emissions) 0.090-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 30 1.705-30 30 30 30 216-960 200 3 3 216-960 200 3 3 216-960 200 3 3 Above 1GHz 500 3 3 216-960 200 3 3 216-960 200 3 3 206 degrees todetermine the position of the highest radiation. b. The EUT was placed on the top of a variable-0.8 meters above the groundtat 3 meter samy from the interforence-receiving anterna, whichwas mounted on the top of a variable-height antenna tower. 0. The Eutheasteria 6. The asthera meters above the ground to determine the maximum value of the field strength. Both horizontal and vertic	fundamental signal)	13.410MHz-13.55	53MHz &		334			90.5	
13.710MHz-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(hh) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.090-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 1705-30 30 30 30-88 100 3 216-960 200 3 Above 1GHz 500 3 Above 1GHz 500 3 30 degrees todetermine the position of the highest tradiation. 5 30 degrees todetermine the position of the highest tradiation. 5 30 degrees todetermine the position of the highest tradiation. 6 30 the EUT was set3 meters away from the interference-receiving antenna, whichwas 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 thenthea natenna was tuned to heights from 1 meter to 4 me		13.567MHz-13.7	10MHz		004			50.5	
13.7/DMH2-14.010MH2		13.110MHz-13.41	0MHz &		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 detrapolation 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) 0.099-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 30 1.705-30 30 30 30 30-88 100 3 30-216 216-960 200 3 30 216-960 200 3 30 216-960 200 3 3 216-960 200 3 3 200 dB/deces 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 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, whichwas mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the groundat a determine the maximum value of the field strength. Both			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 Above 1GHz 500 3 Constant a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. b. The EUT was placed on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground ta 3 meter saway from the interference-receiving antenna, whichwas 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EU		than specified, the distance by using 40 dB/decade) in	e field stren the square	ngth r e of a	esults shall be e n inverse linear o	xtrapo distan	olated to ce extra	the specified polation factor (i.e.,	
0.490-1.705 24000/F(kHz) 30 1.705-30 30 30 30-88 100 3 20-88 100 3 216-960 200 3 Above 1GHz 500 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, whichwas 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB	Limit:	Frequency (N	1Hz)	L	imit (uV/m @3m)		Distance (m)	
1.705-30 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, whichwas 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, 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)	0.009-0.49	0		2400/F(kHz)			300	
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, whichwas 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 antenna 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, 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 andthen reported in a data sheet.	, , , , , , , , , , , , , , , , , , , ,	0.490-1.70	24000/F(kHz)			30			
88-216 150 3 216-960 200 3 Above 1GHz 500 3 Test Procedure: 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, whichwas 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 turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, 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.		1.705-30			30			30	
Z16-960 200 3 Above 1GHz 500 3 Test Procedure: 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, whichwas 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 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, 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.					100				
Above 1GHz 500 3 Test Procedure: 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, whichwas 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, 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.									
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Testestur		 the grounda 360 degrees b. The EUT wa antenna, wh tower. c. The antenna ground to de horizontal a measureme d. For each su and thenthe and the rota find the max e. The test-reco SpecifiedBa f. If the emissi the limitspec of the EUT w have 10dB r peak or ave 	a height is stodeterm as set 3 m hichwas m a height is etermine t nd vertica nt. spected e antenna tabletable kimum rea eiver syst ndwidth w ion level o cified, thei wouldbe re margin wo	er se nine f neters nount s vari he m l pola emiss was e was ading tem v vith N of the n tes eport	mi-anechoic ca the position of s away from the ed on the top of ed from one m naximum value arizations of the ston, the EUT v tuned to height s turned from 0 was set to Peal Maximum Hold EUT in peak r ting could be s ted. Otherwise pere-tested one	amber the hi e inte of a va eter to of the e ante vas ar ts fror degr k Dete mode toppe the e e by c	r. The t ighest r rference ariable o four r e field s enna ar rrangeo m 1 me ees to ect Fur e. was 10 ed and mission one usin	able was rotated radiation. ce-receiving -height antenna meters above the strength. Both re set to make the d to its worst case eter to 4 meters 360 degrees to action and DdB lower than the peak values ns that did not ng peak, quasi-	
	Test setup:								







Measurement Data:

Field Strength of fundamental signal:

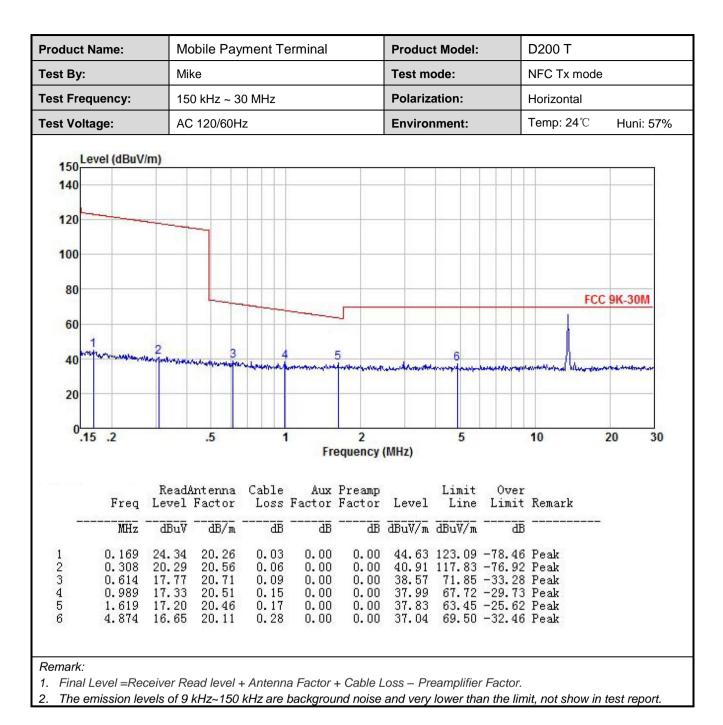
oduct Name:	me: Mobile Payment Terminal Product Model: D20		D200 T			
st By:	Mike		Test mode:		NFC Tx mode	
st Voltage:	AC 120/60H	Z	Environme	nt:	Temp: 24 ℃	Huni: 57%
130 Level (dBuV/r	n)		1			
120						
100				100		
80					15.225 POWE	RLIMIT
001				1.4		
			1			
60			1			
		en mun	1	man		
	market mark	Lama	how	man	mmerce	
60 40	man	hanne	how	man	manterations	man
60	man	hanne	hum	man	manterations	
60 40 20	monton	Lann	how	mm	manterations	m
60 40	nor hand and hand a start where the start wher	13.5		ma	mmm	14.01
60 40 20	mara hanna d			m	un un	14.01
60 40 20		Freq	uency (MHz)	man	unnuna	14.01
60 40 20 0 13.11 13.2	ReadAntenna	Freq Cable Aux P	uency (MHz)	Limit Over Line Limit		14.01
60 40 20 0 13.11 13.2 Freq	ReadAntenna Level Factor	Freq Cable Aux P Loss Factor F	uency (MHz) Preamp Factor Level	Line Limit	t Remark	14.01
60 40 20 0 13.11 13.2 Freq MHz	ReadAntenna	Freq Cable Aux P Loss Factor F 	uency (MHz) Preamp Factor Level dB dBuV/m	Line Limit	t Remark 8	14.01



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

oduct Na	ime:	Μ	Mobile Payment Terminal Product Model: I			D2	D200 T						
st By:		Mike Test mode: NCF Tx mode		Mike Test mode: NCF					NCF Tx mode				
st Frequ	ency:	1:	50 kHz ~	30 MHz			Pola	arizatior):	Ve	Vertical		
st Voltag	je:	A	C 120/60	Hz			Env	rironmer	nt:	Те	mp: 24 ℃	Huni: 57%	
-	el (dBuV	/m)	2	3 Sable	1 Aux	2 Frequence Preamp Factor	cy (MHz)	5 Limit Line	Over	44444444444444444444444444444444444444	FCC	<mark>9K-30M</mark> 9 K-30M 20 30	
	MHz				0.00	0 00	43.45	100 00	-70 54	Peak			

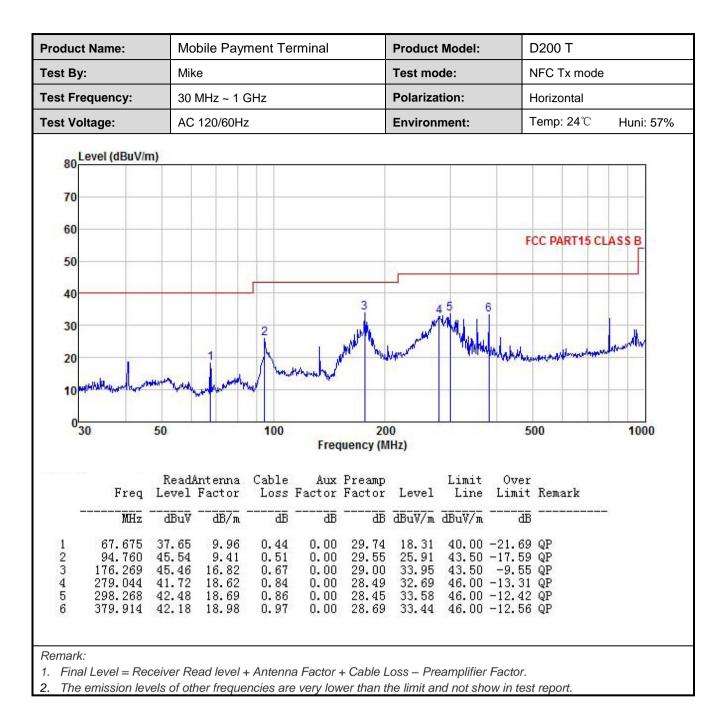




Test frequency range: 30MHz-1000MHz

roduct Na	me:	me: Mobile Payment Terminal Mike			Product Model:			D200 T				
est By:					Test m	Test mode:			NFC Tx mode			
est Frequ	ency:	30	MHz ~ 1 (GHz			Polariz	zation:		Vertica	al	
est Voltag	je:	AC	120/60H	Z			Enviro	nment:		Temp:	24 ℃	Huni: 57%
Lovol	(dBuV/m	1										
80	lapawill											
70		_		_						_		
60										_		_
										FCC PA	RT15 C	LASSB
50							-					
40					4							
30 414-1		2		3		5		6			_	
	my m	m		A		MANNA MAN	Ymphoneternan	AL.	1.11		da	malutha
20	"Lar	1	nh van	w h	10 V		T YANA MINAP	White	whether	" The second second	Markey Part -	
10	-				nul:	_					_	
0 ₃₀		50		100	Fre	2 quency (l	00 MHz)			500		1000
	· · · ·											
	Fred	ReadA Level	ntenna Factor	Cable	Aux	Preamp	Level	Limit Line	Over Limit	Romari	-	
<u></u>	MHz	dBuV					dBuV/m					
3 .										AD		
	34.037 52.575	47.46 43.37	12.45 12.21	0.35 0.40	0.00 0.00	29.96 29.81	30.30 26.17	40.00	-9.70 -13.83	QP		
3 !	94.760 33.151	50.85 50.91	9.41 12.88	0.51 0.59	0.00 0.00	29.55 29.31	31.22 35.07	43.50 43.50	-12.28	QP		
	76.269	42.49	16.82	0.67	0.00	29.00	30.98	43.50	-12.52	QP		
6 23	81.995	35.54	18.63	0.84	0.00	28.48	26.53	46.00	-19.47	QP		
Remark:												
. Final Le	vol - Doc	naivar Dr	and lovel	1 Antoni	na Enntai	- Cohlo	Loco F	Progranlifi	ar Eantor			





CCIS

6.3 20dB Bandwidth

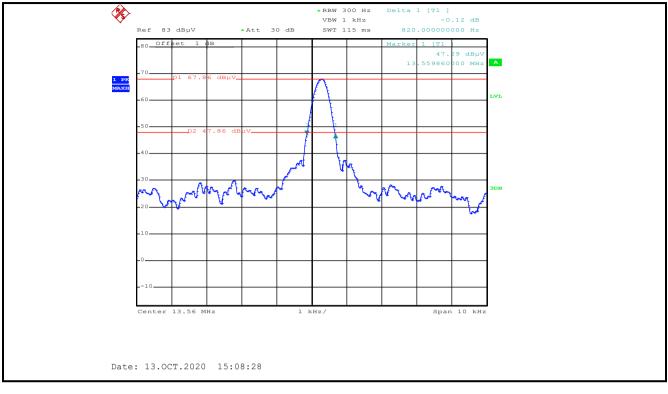
Test Requirement:	FCC Part15 C Section 15.215 (c)				
Receiver setup:	RBW=300Hz, VBW=1KHz, detector: Peak				
Limit:	The fundamental emission be kept within at least the central 80% of the permitted band				
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial 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							
0.820 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

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 1. The equipment under test was powered by a fresh battery. 2. RF output was connected to spectrum analyzer via feed throwattenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and measure EUT 20°C operating frequency reference frequency. 5. Turn EUT off and set the chamber temperature to -20°C. After temperature stabilized for approximately 30 minutes recorded frequency. 6. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement 1. 1. Set the spectrum analyzer RBW low enough to obtain the desi frequency.	Test Requirement:	FCC Part15 C Section 15.225 (e)
Limit: ±0.01% of the operating frequency Test mode: Transmitting mode Test Procedure: Frequency stability V.S. Temperature measurement 1. The equipment under test was powered by a fresh battery. 2. RF output was connected to spectrum analyzer via feed throw attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and measure EUT 20°C operating frequency reference frequency. 5. Turn EUT off and set the chamber temperature to -20°C. After temperature stabilized for approximately 30 minutes recorded frequency. 6. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement 1. 1. Set the spectrum analyzer RBW low enough to obtain the desi frequency. 6. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement 1. 1. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and recorded the frequency. 2. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and recorded the frequency. 2. Set the spectrum analyzer to rade voltage.	· · · · · · · · · · · · · · · · · · ·	
Test mode: Transmitting mode Test Procedure: Frequency stability V.S. Temperature measurement 1. The equipment under test was powered by a fresh battery. 2. RF output was connected to spectrum analyzer via feed throw attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and measure EUT 20°C operating frequency reference frequency. 5. Turn EUT off and set the chamber temperature to -20°C. After temperature stabilized for approximately 30 minutes recorded frequency. 6. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement 1. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement 1. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation 15%) and endpoint, record the maximum frequency change. Test setup: Spectrum Analyzer	· · ·	
Test Procedure: Frequency stability V.S. Temperature measurement 1. The equipment under test was powered by a fresh battery. 2. RF output was connected to spectrum analyzer via feed throu attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and measure EUT 20°C operating frequency reference frequency. 5. Turn EUT off and set the chamber temperature to -20°C. After temperature stabilized for approximately 30 minutes recorded frequency. 6. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement 1. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement 1. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation 15%) and endpoint, record the maximum frequency change. Test setup: Spectrum Analyzer		
 The equipment under test was powered by a fresh battery. RF output was connected to spectrum analyzer via feed throu attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and measure EUT 20°C operating frequency reference frequency. Turn EUT off and set the chamber temperature to -20°C. After temperature stabilized for approximately 30 minutes recorded frequency. Repeat step measure with 10°C increased per stage until the high temperature of +50°C reached Frequency stability V.S. Voltage measurement Set chamber temperature to 25°C. Use a variable DC power sou to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desi frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation 15%) and endpoint, record the maximum frequency change. 		
E.U.T	Test Procedure:	 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.
Ground Reference Plane	Test setup:	Image: Non-Conducted Table
Test Instruments: Refer to section 5.9 for details	Test Instruments:	Refer to section 5.9 for details
Test mode: Refer to section 5.3 for details		
Test results: Passed	Test results:	



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
3.7	+10	0.079	0.0058	±0.01	Pass
3.7	+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
	3.5	-0.085	-0.0063	±0.01	Pass
25.0	3.7	0.071	0.0052	±0.01	Pass
	4.2	0.092	0.0068	±0.01	Pass



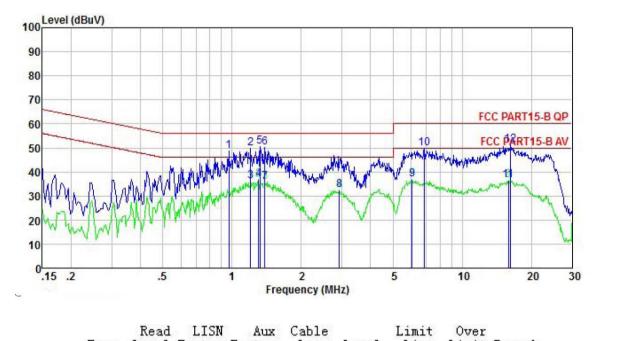
6.5 Conducted Emission

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	
	AUX E.U.T Equipment E.U.T Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Netw 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.).I impedance for the meas are also connected to th 50ohm/50uH coupling in fer to the block diagram	It provide a buring equipment. The 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:	Mobile Payment Terminal	Product model:	D200 T
Test by:	Mike	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	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
12	MHz	dBuV	āb	g	₫₿	 dBu∛	 dBuV	āB	
1	0.968	38.04	-0.61	0.38	10.86	48.67	56.00	-7.33	QP
2	1.203	39.11	-0.59	0.25	10.89	49.66	56.00	-6.34	QP
3	1.203	25.47	-0.59	0.25	10.89	36.02	46.00	-9.98	Average
4	1.303	26.32	-0.58	0.17	10.90	36.81	46.00		Average
5	1.324	40.02	-0.58	0.15	10.91	50.50	56.00	-5.50	QP
1 2 3 4 5 6 7 8 9	1.388	39.59	-0.57	0.09	10.91	50.02	56.00	-5.98	QP
7	1.388	25.48	-0.57	0.09	10.91	35.91	46.00	-10.09	Average
8	2.931	22.10	-0.43	-0.22	10.92	32.37	46.00	-13.63	Average
9	6.056	25.65	-0.49	0.79	10.82	36.77	50.00	-13.23	Average
10	6.878	38.26	-0.55	1.24	10.80	49.75	60.00	-10.25	QP
11	15.885	23.16	-0.73	3.07	10.91	36.41	50.00	-13.59	Average
12	16.226	38.12	-0.74	2.91	10.91	51.20	60.00	-8.80	QP

Notes:

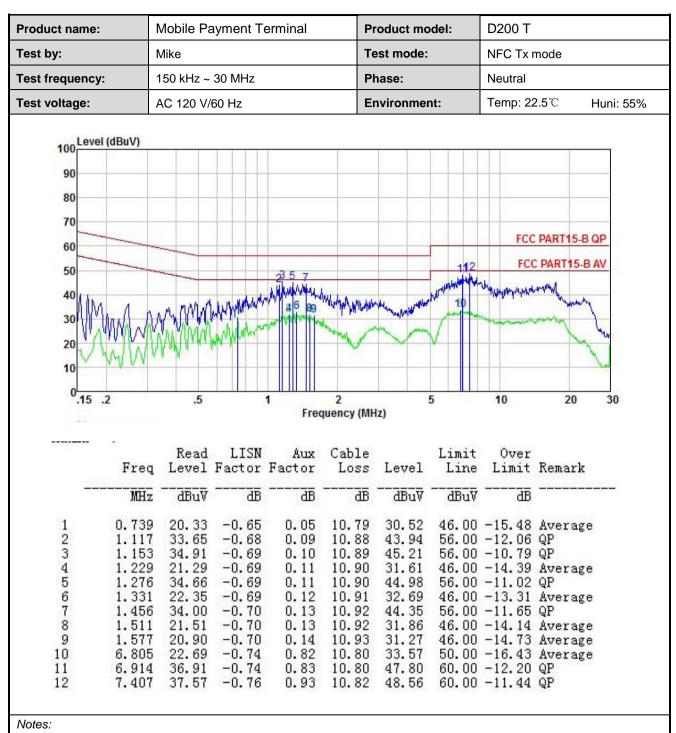
1. An initial pre-scan was performed on the line and neutral lines with peak detector.

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

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

4. Pre-scan adapter(1) and adapter(2), found adapter(1) was worse case mode. the report only reflects the worst mode.





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 + Aux Factor + Cable Loss.

4. Pre-scan adapter(1) and adapter(2), found adapter(1) was worse case mode. the report only reflects the worst mode.



8 EUT Constructional Details

Reference to the EUT photos

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