



JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102224

FCC REPORT (WIFI)

Applicant: PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road,

Wanchai, Hong Kong

Equipment Under Test (EUT)

Product Name: Countertop Payment Terminal

Model No.: A80

Trade mark: PAX

FCC ID: V5PA80SMBW

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 21 Oct., 2021

Date of Test: 22 Oct., to 01 Dec., 2021

Date of report issued: 13 Dec., 2021

Test Result: PASS*

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 JYT 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.

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





Version

Version No.	Date	Description
00	01 Dec., 2021	Original
01	13 Dec., 2021	Update manufacturer addresses.

Tested by:	Mike ou	Date:	13 Dec., 2021	
	Test Engineer			

Winner Thang Reviewed by: 13 Dec., 2021 Date:

Project Engineer



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	6 DB BANDWIDTH	
	MAXIMUM POWER SPECTRAL DENSITY LEVEL	
	99% OCCUPIED CHANNEL BANDWIDTH	
	BAND EDGE	
റ	CONDUCTED RE SPURIOUS EMISSION	90





4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass
Conducted Band Edge	45 247 (4)	Appendix A – 2.4G Wi-Fi	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	45 205 % 45 200	Appendix A – 2.4G Wi-Fi	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	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
KDB 558074 D01 15.247 Meas Guidance v05r02





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:	401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C

5.2 Conoral Description of E.I.T.

Product Name:	Countertop Payment Terminal		
Model No.:	A80		
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz: 802.11n(HT40)		
Channel numbers:	11: 802.11b/802.11g/802.11(HT20) 7: 802.11n(HT40)		
Channel separation:	5MHz		
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)		
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)		
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps		
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps		
Data speed (IEEE 802.11n):	Up to 150Mbps		
Antenna Type:	Internal Antenna		
Antenna gain:	1.5dBi		
AC adapter:	Adapter 1: Model No.: G024A090100ZZUD Input: AC100-240V, 50/60Hz 0.8A Max Output: DC 9.0V, 1.0A Adapter 2: Model No.: ADS-18SG-09-2 09009G Input: AC100-240V, 50/60Hz 0.6A Max Output: DC 9.0V, 1.0A Adapter 3: Model No.: SW-0396A Input: AC100-240V, 50/60Hz 0.5A Max Output: DC 9.0V, 1.0A		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		
Remark:	There are two kinds of EUT, one with modem, the other without. Choose to test the EUT with modem.		

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Operation Fr	Operation Frequency each of channel for 802.11b/g/n(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3	2422MHz	6	2437MHz	9	2452MHz			

Note:

- 1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
- 2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest Channel.

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.				
Mode Data rate				
802.11b	1Mbps			
802.11g	6Mbps			
802.11n(HT20)	6.5Mbps			
802.11n(HT40)	13.5Mbps			

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

ore income in the content of the con	
Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

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5.6 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen 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 JianYan Testing Group Shenzhen 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 17025:2017 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

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+		Version:3.0.0.1	

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	V	ersion: 6.110919	b

Conducted method:	Conducted method:										
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)						
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022						
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022						
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022						
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022						
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022						
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A						
PDU	MWRF-test	XY-G10	N/A	N/A	N/A						
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023						
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022						
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0								



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.5 dBi.

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6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.2	207							
Test Frequency Range:	150 kHz to 30 MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9 kHz, VBW=30 kHz	RBW=9 kHz, VBW=30 kHz							
Limit:	Eroguonov rango (MUz)	Limit (dBuV)							
	. , , , ,	Frequency range (MHz) Quasi-peak Average							
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	5-30	60	50						
	* Decreases with the logarith								
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. 								
Test setup:	Re	eference Plane							
	AUX Equipment Test table/Insulatio Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilities Test table height=0.8m	<u>·</u> st	er — AC power						
Test Instruments:	Refer to section 5.8 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Pass(pre-scan adapter 1, a worse case mode, only refle		, found adapter 2 was						

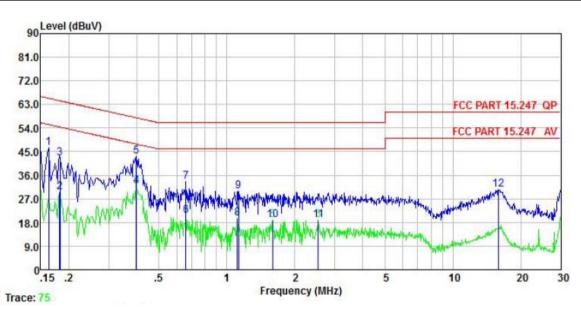
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Measurement Data:

Adapter 2

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



			ractor	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>dB</u>	d₿	dBu₹	dBu∀	<u>dB</u>	
1	0.162	36.21	10.22	0.00	0.01	46.44	65.34	-18.90	QP
2	0.182	19.20	10.23	0.00	0.01	29.44	54.42	-24.98	Average
3	0.182	32.33	10.23	0.00	0.01	42.57	64.37	-21.80	QP
4	0.398	21.43	10.28	0.00	0.04	31.75	47.90	-16.15	Average
1 2 3 4 5 6 7 8 9	0.398	32.93	10.28	0.00	0.04	43.25	57.90	-14.65	QP
6	0.658	10.13	10.30	0.00	0.03	20.46	46.00	-25.54	Average
7	0.658	23.19	10.30	0.00	0.03	33.52	56.00	-22.48	QP
8	1.111	9.10	10.32	0.00	0.07	19.49	46.00	-26.51	Average
9	1.129	19.37	10.32	0.00	0.08	29.77	56.00	-26.23	QP
10	1.593	8.60	10.33	0.00	0.16	19.09	46.00	-26.91	Average
11	2.540	8.44	10.34	0.00	0.13	18.91	46.00	-27.09	Average
12	15.970	19.50	10.80	0.00	0.16	30.46	60.00	-29.54	QP

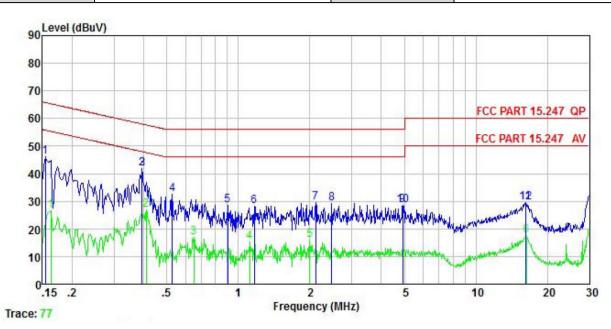
Notes:

- 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.

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



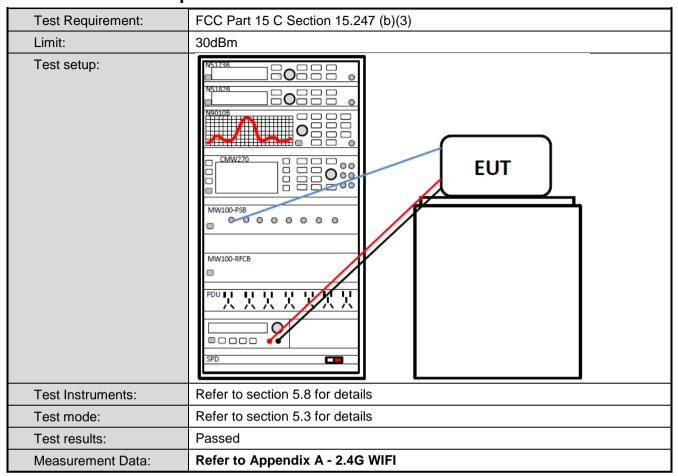
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	<u>dB</u>	₫B	dBu₹	dBu₹	dB	
1	0.154	35.82	\$70 \$70 \$EU TOTAL		0.01	46.02		-19.76	
2	0.393	31.47	10.27		0.04	41.78		-16.21	
3	0.393	31.47	10.27	0.00	0.04	41.78	57.99	-16.21	QP
4	0.527	22.20	10.28	0.00	0.03	32.51	56.00	-23.49	Peak
5	0.904	18.11	10.31	0.00	0.04	28.46	56.00	-27.54	QP
6	1.166	17.84	10.31	0.00	0.09	28.24	56.00	-27.76	Peak
7	2.121	18.92	10.32	0.00	0.19	29.43		-26.57	
8	2,474	18.87	10.33	0.00	0.14	29.34	56.00	-26.66	Peak
2 3 4 5 6 7 8 9	4.926	17.91	10.41	0.00	0.09	28.41		-27.59	
10	4.926	17.91	10.41	0.00	0.09	28.41		-27.59	
11	16.140	18.62						-30.45	The Control of the Co
12	16.140	18.62			0.16	29.55		-30.45	

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.



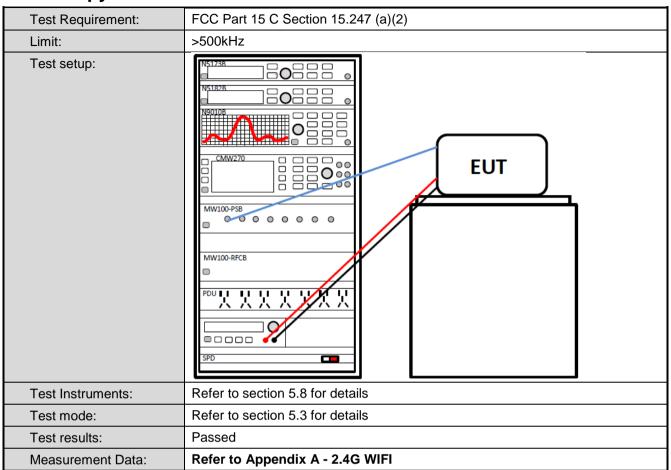
6.3 Conducted Output Power



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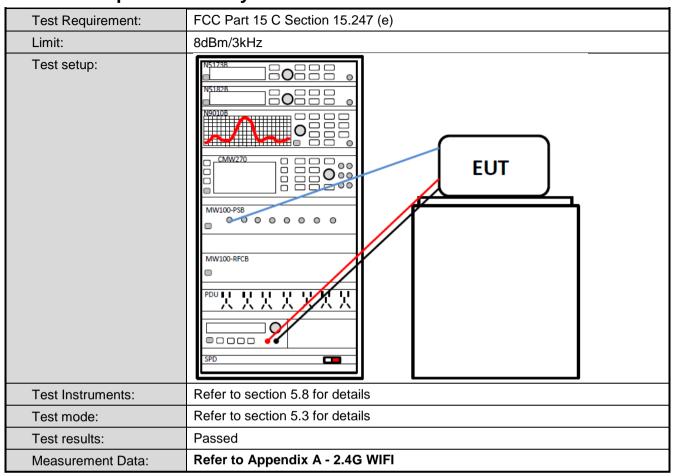
6.4 Occupy Bandwidth



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6.5 Power Spectral Density



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6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.					
Test setup:	NS182R NS18R NS182R NS18R NS1					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Measurement Data:	Refer to Appendix A - 2.4G WIFI					

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6.6.2 Radiated Emission Method

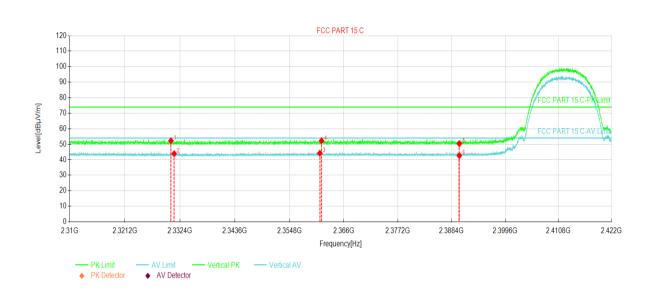
Test Distance: Receiver setup: Frequency	Took Dequirements		otion 15 200	and 15 205						
Test Distance: Receiver setup: Frequency Detector RBW VBW Remark	Test Requirement:									
Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value RMS 1MHz 3MHz Average Value RMS 1MHz 3MHz Average Value SMO SMO Remark Above 1GHz 54.00 Average Value Above 1GHz 74.00 Peak Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the attenna was tuned to heights from 1 meter to 4 meters and the rotal table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test Instruments: Refer to section 5.8 for details Refer to section 5.3) MHz and 24	483.5 MHz to 2	500 MI	ΗZ				
Above 1GHz RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark Above 1GHz 74.00 Average Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test setup: Refer to section 5.8 for details Refer to section 5.3 for details	Test Distance:				1		T			
Limit: Frequency Limit (dBuV/m @3m) Remark Above 1GHz 74.00 Average Value 54.00 Average Value 74.00 Peak Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna arest to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test setup: Refer to section 5.8 for details Refer to section 5.3 for detail	Receiver setup:	Frequency								
Limit: Frequency		Above 1GHz								
Above 1GHz Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test Instruments: Refer to section 5.8 for details Refer to section 5.3 for details	l imit:	Frequency				11 12				
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test Instruments: Refer to section 5.8 for details Refer to section 5.3 for details	Ziiiii.			•	,	A۱				
the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test setup: Test Instruments: Refer to section 5.8 for details Refer to section 5.3 for details										
Test Instruments: Refer to section 5.8 for details Test mode: Refer to section 5.3 for details		 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or 								
Test mode: Refer to section 5.3 for details			(Turntable)	Ground Raference Plane						
	Test Instruments:	Refer to section 5	.8 for details							
Test results: Passed	Test mode:	Refer to section 5.3 for details								
. 33333	Test results:	Passed								

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802.11b mode:

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	el: Lowest channel Polarization:		Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]√	Level. [dBµV/m].	Factor⊬ [dB]⊬	Limit⊮ [dBµV/m]⊮	Margin⊬ [dB]∉	Trace₽	Polarity₽
1₽	2330.55	45.45₽	52.26₽	6.81₽	74.00₽	21.74	PK₽	Vertical₽
2₽	2331.21	37.10₽	43.91₽	6.81₽	54.00₽	10.09₽	AV₽	Vertical₽
3₽	2361.05	37.22₽	44.20₽	6.98₽	54.00₽	9.80₽	AV₽	Vertical₽
4₽	2361.40	45.28₽	52.26₽	6.98₽	74.00₽	21.74₽	PK₽	Vertical₽
5₽	2390.01	43.14₽	50.36₽	7.22₽	74.00₽	23.64₽	PK₽	Vertical₽
6₽	2390.01	35.42₽	42.64₽	7.22₽	54.00₽	11.36₽	AV₽	Vertical₽

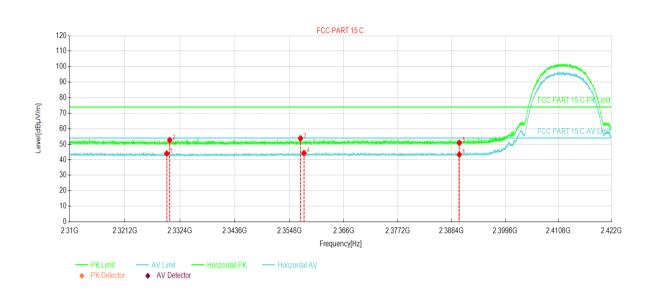
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel Polarization:		Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.	Reading	Level	Factor⊬	Limit⊬	Margin⊬	Trace∂	Polarity <i></i>
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]₽	[dB]∂	[dBµV/m]₽	[dB]₽	Hace	1 Olamy
1₽	2329.69	37.20₽	44.01₽	6.81₽	54.00₽	9.99₽	AV₽	Horizontal₽
2₽	2330.30	45.81₽	52.62₽	6.81₽	74.00₽	21.38₽	PK₽	Horizontal₽
3₽	2357.08	46.81₽	53.75₽	6.94₽	74.00₽	20.25₽	PK₽	Horizontal₽
4.₽	2357.79	37.34₽	44.29₽	6.95₽	54.00₽	9.71₽	AV₽	Horizontal₽
5₽	2390.01	43.64₽	50.86₽	7.22₽	74.00₽	23.14₽	PK₽	Horizontal₽
6₽	2390.01	36.09₽	43.31₽	7.22₽	54.00₽	10.69₽	AV₽	Horizontal₽

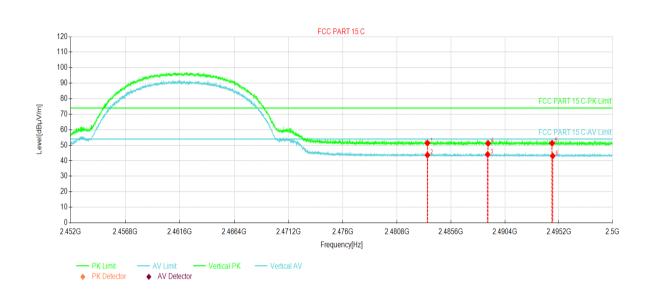
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



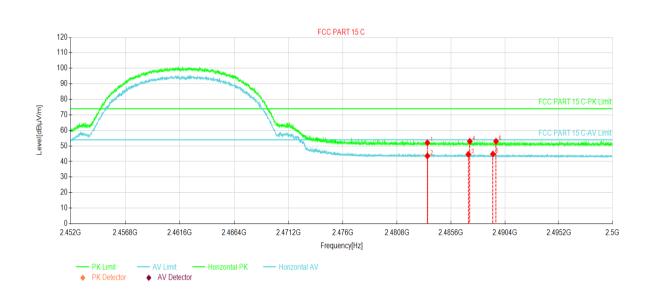
NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level. [dBµV/m].	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity∉
1₽	2483.50	43.88₽	51.38₽	7.50₽	74.00₽	22.62₽	PK₽	Vertical₽
2↩	2483.50	36.16₽	43.66₽	7.50₽	54.00₽	10.34₽	AV₽	Vertical₽
3₽	2488.85	36.60₽	44.06₽	7.46₽	54.00₽	9.94₽	AV₽	Vertical₽
4₽	2488.90	43.71₽	51.17₽	7.46₽	74.00₽	22.83₽	PK₽	Vertical₽
5₽	2494.60	43.87₽	51.29₽	7.42₽	74.00₽	22.71₽	PK₽	Vertical₽
6₽	2494.65	35.68₽	43.10₽	7.42₽	54.00₽	10.90₽	AV₽	Vertical₽

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level. [dBµV/m].	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity
1₽	2483.50	44.53₽	52.03₽	7.50₽	74.00₽	21.97₽	PK₽	Horizontal₽
2↩	2483.50	36.08₽	43.58₽	7.50₽	54.00₽	10.42₽	AV₽	Horizontal₽
3₽	2487.14	37.11₽	44.58₽	7.47₽	54.00₽	9.42₽	AV₽	Horizontal₽
4₽	2487.26	45.50₽	52.97₽	7.47₽	74.00₽	21.03₽	PK₽	Horizontal₽
5₽	2489.32	37.36₽	44.82₽	7.46₽	54.00₽	9.18₽	AV₽	Horizontal₽
6₽	2489.60	45.54₽	53.00₽	7.46₽	74.00₽	21.00₽	PK₽	Horizontal₽

Remark:

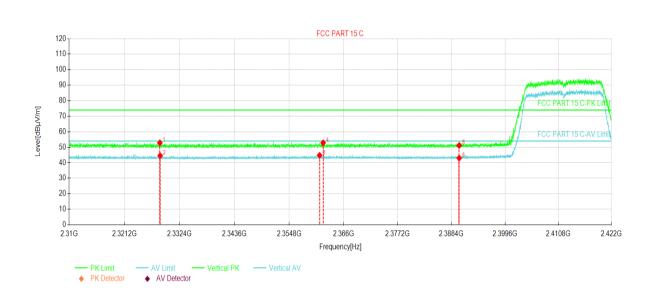
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11g mode:

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



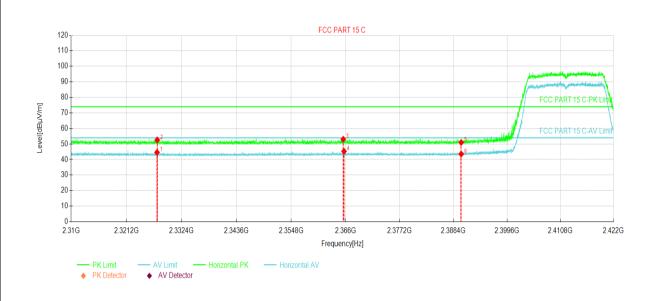
NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity∉
1₽	2328.36	46.05₽	52.85₽	6.80₽	74.00₽	21.15₽	PK₽	Vertical₽
2↩	2328.43	37.72₽	44.52₽	6.80₽	54.00₽	9.48₽	AV₽	Vertical₽
3₽	2361.05	37.77₽	44.75₽	6.98₽	54.00₽	9.25₽	AV₽	Vertical₽
4₽	2361.80	45.88₽	52.86₽	6.98₽	74.00₽	21.14₽	PK₽	Vertical₽
5₽	2390.01	43.96₽	51.18₽	7.22₽	74.00₽	22.82₽	PK₽	Vertical₽
6↩	2390.01	35.78₽	43.00₽	7.22₽	54.00₽	11.00₽	AV₽	Vertical₽

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.	Freq.⊌ [MHz]∂	Reading⊮ [dBµV/m]⊭	Level [dBµV/m]∂	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity₀
1₽	2327.38	37.78₽	44.58₽	6.80₽	54.00₽	9.42₽	AV₽	Horizontal₽
2₽	2327.43	45.79₽	52.59₽	6.80₽	74.00₽	21.41₽	PK₽	Horizontal₽
3₽	2365.53	46.01₽	53.02₽	7.01₽	74.00₽	20.98₽	PK₽	Horizontal₽
4.₽	2365.69	38.24₽	45.25₽	7.01₽	54.00₽	8.75₽	AV₽	Horizontal₽
5₽	2390.01	43.75₽	50.97₽	7.22₽	74.00₽	23.03₽	PK₽	Horizontal₽
6₽	2390.01	36.29₽	43.51₽	7.22₽	54.00₽	10.49₽	AV₽	Horizontal₽

Remark:

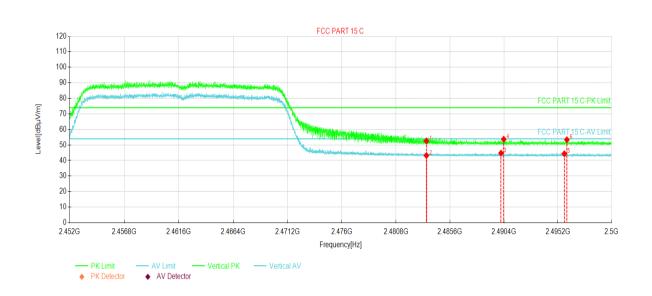
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Project No.: JYTSZE2110074



Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.∂	Freq.⊌ [MHz]⊌	Reading√ [dBµV/m]∞	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity∂
1₽	2483.50	45.08₽	52.58₽	7.50₽	74.00₽	21.42₽	PK₽	Vertical₽
2↩	2483.50	35.71₽	43.21₽	7.50₽	54.00₽	10.79₽	AV₽	Vertical₽
3₽	2490.13	37.28₽	44.73₽	7.45₽	54.00₽	9.27₽	AV₽	Vertical₽
4 .	2490.37	46.23₽	53.68₽	7.45₽	74.00₽	20.32₽	PK₽	Vertical₽
5₽	2495.78	36.91₽	44.33₽	7.42₽	54.00₽	9.67₽	AV₽	Vertical₽
6₊∍	2496.01	45.93₽	53.35₽	7.42₽	74.00₽	20.65₽	PK₽	Vertical₽

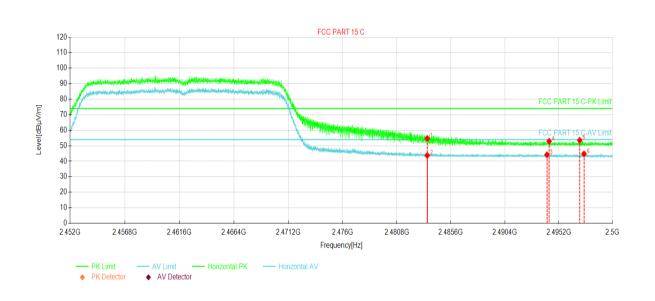
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity
1₽	2483.50	47.18₽	54.68₽	7.50₽	74.00₽	19.32₽	PK₽	Horizontal.
2↩	2483.50	36.21₽	43.71₽	7.50₽	54.00₽	10.29₽	AV₽	Horizontale •
3₽	2494.15	36.72₽	44.15₽	7.43₽	54.00₽	9.85₽	AV₽	Horizontal.
4 ₽	2494.34	45.45₽	52.88₽	7.43₽	74.00₽	21.12₽	PK₽	Horizontal₽
5₽	2497.06	46.10₽	53.51₽	7.41₽	74.00₽	20.49₽	PK₽	Horizontal@
6↩	2497.45	37.35₽	44.76₽	7.41₽	54.00₽	9.24₽	AV₽	Horizontal -

Remark:

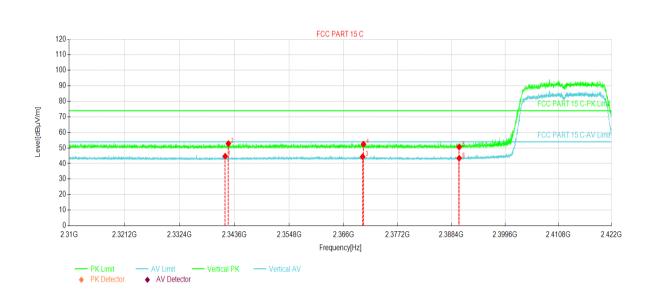
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT20):

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.⊌ [MHz]⊌	Reading√ [dBµV/m]⊬	Level⊬ [dBµV/m]₄	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity∉
1₽	2341.68	37.82₽	44.67₽	6.85₽	54.00₽	9.33₽	AV₽	Vertical₽
2↩	2342.34	45.95₽	52.80₽	6.85₽	74.00₽	21.20₽	PK₽	Vertical₽
3₽	2369.94	37.32₽	44.37₽	7.05₽	54.00₽	9.63₽	AV₽	Vertical₽
4.₽	2370.13	45.40₽	52.45₽	7.05₽	74.00₽	21.55₽	PK₽	Vertical₽
5₽	2390.01	43.40₽	50.62₽	7.22₽	74.00₽	23.38₽	PK₽	Vertical₽
6₽	2390.01	36.20₽	43.42₽	7.22₽	54.00₽	10.58₽	AV₽	Vertical₽

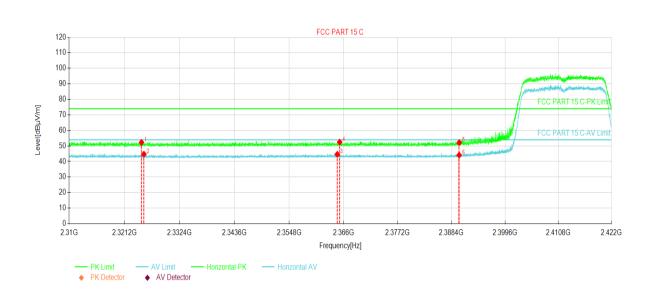
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.⊌ [MHz]₽	Reading√ [dBµV/m]∞	Level⊬ [dBµV/m]₄	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity₽
1₽	2324.64	45.49₽	52.28₽	6.79₽	74.00₽	21.72₽	PK₽	Horizontale •
2₊□	2325.13	37.95₽	44.74₽	6.79₽	54.00₽	9.26₽	AV₽	Horizontale •
3₽	2364.71	37.62₽	44.63₽	7.01₽	54.00₽	9.37₽	AV₽	Horizontal₽
4↔	2365.20	45.44₽	52.45₽	7.01₽	74.00₽	21.55₽	PK₽	Horizontal₽
5₽	2390.01	44.94₽	52.16₽	7.22₽	74.00₽	21.84₽	PK₽	Horizontal@
6₽	2390.01	36.91₽	44.13₽	7.22₽	54.00₽	9.87₽	AV₽	Horizontal₽

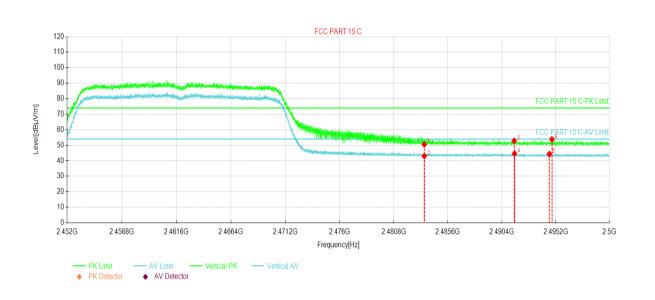
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level [dBµV/m]∂	Factor⊬ [dB]⊮	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity₀
1₽	2483.50	43.05₽	50.55₽	7.50₽	74.00₽	23.45₽	PK₽	Vertical₽
2↩	2483.50	35.52₽	43.02₽	7.50₽	54.00₽	10.98₽	AV₽	Vertical₽
3₽	2491.49	45.36₽	52.80₽	7.44₽	74.00₽	21.20₽	PK₽	Vertical₽
4₽	2491.52	37.14₽	44.58₽	7.44₽	54.00₽	9.42₽	AV₽	Vertical₽
5₽	2494.63	36.88₽	44.30₽	7.42₽	54.00₽	9.70₽	AV₽	Vertical₽
6₽	2494.85	46.35₽	53.77₽	7.42₽	74.00₽	20.23₽	PK₽	Vertical₽

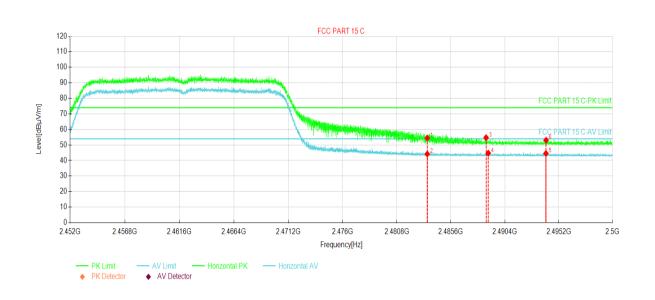
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity∉
1₽	2483.50	46.93₽	54.43₽	7.50₽	74.00₽	19.57₽	PK₽	Horizontal₽
2₄೨	2483.50	36.68₽	44.18₽	7.50₽	54.00₽	9.82₽	AV₽	Horizontal₽
3₽	2488.73	47.25₽	54.71₽	7.46₽	74.00₽	19.29₽	PK₽	Horizontal₽
4.₽	2488.92	37.25₽	44.71₽	7.46₽	54.00₽	9.29₽	AV₽	Horizontal₽
5₽	2494.06	37.11₽	44.54₽	7.43₽	54.00₽	9.46₽	AV₽	Horizontal₽
6₽	2494.07	45.63₽	53.06₽	7.43₽	74.00₽	20.94₽	PK₽	Horizontal₽

Remark:

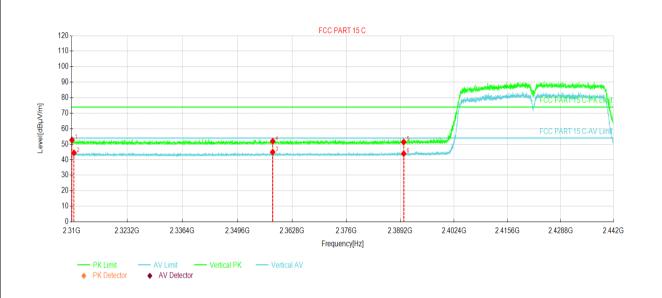
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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802.11n(HT40):

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity∉
1₽	2310.09	45.96₽	52.70₽	6.74₽	74.00₽	21.30₽	PK₽	Vertical₽
2↩	2310.56	37.72₽	44.46₽	6.74₽	54.00₽	9.54₽	AV₽	Vertical₽
3₽	2358.13	37.98₽	44.93₽	6.95₽	54.00₽	9.07₽	AV₽	Vertical₽
4 ₽	2358.14	44.98₽	51.93₽	6.95₽	74.00₽	22.07₽	PK₽	Vertical₽
5₽	2390.02	44.21₽	51.43₽	7.22₽	74.00₽	22.57₽	PK₽	Vertical₽
6₽	2390.02	36.70₽	43.92₽	7.22₽	54.00₽	10.08₽	AV₽	Vertical₽

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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