

FCC RADIO TEST REPORT FCC ID: 2AX5VKEYPADPLNA2

Product: Wireless touch keypad

Trade Mark: ハルン

Model Name: KPPJ0001NA

Family Model: N/A

Report No.: S23092202202002

Prepared for

AJAX SYSTEMS CYPRUS HOLDINGS LTD

Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community,
Xixiang Street Bao'an District, Shenzhen 518126 P.R. China
Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090

Website: http://www.ntek.org.cn





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TEST RESULT CERTIFICATION

Applicant's name: A	AJAX SYSTEMS CYPRUS HOLDINGS LTD
	figeneias, 17, Strovolos, 2007, Nicosia, Cyprus
	AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY
Address: S	Sklyarenka, 5, Kyiv, 04073, Ukraine
Factory (1): "	AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY
Address: S	Sklyarenka, 5, Kyiv, 04073, Ukraine
Factory (2): "	AJAX TURKEY ELEKTRONİK TİCARET" ANONİM ŞİRKETİ
	Aydınlı Sb Mah. 4.Sk. Desbaş 6 Blok No: 4 lc Kapi No: Z01 Tuzla / stanbul
Product description	
Product name: V	Vireless touch keypad
Model and/or type reference : k	(PPJ0001NA
Family Model: N	N/A
Test Sample Number:	S230922022003
Standards F	FCC Part15.225
Test procedure	ANSI C63.10-2013
	been tested by NTEK, and the test results show that the compliance with the FCC requirements. And it is applicable only the report.
•	ed except in full, without the written approval of NTEK, this sed by NTEK, personnel only, and shall be noted in the revision of
Date of Test	:
Date (s) of performance of tests	: Sep 22, 2023~ Oct 12, 2023
Date of Issue	: Oct 12, 2023
Test Result	Pass
Testing Enginee	er : Gavan Zhang
	(Gavan Zhang)
A .1	A lase
Authorized Sign	
	(Alex Li)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.225)					
Standard Section	Test Item	Judgment	Remark		
15.207	15.207 Conducted Emission Pass				
15.205(a) 15.209 15.225	Radiated Spurious Emission	Pass			
15.215	20dB Bandwidth	Pass			
15.225	Frequency Tolerance	Pass			
15.203	Antenna Requirement	Pass			

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.

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1.1 TEST FACILITY

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

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.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality

management system

(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95}$ %.

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%





2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless touch keypad		
Trade Mark	AJAX		
Model Name	KPPJ0001NA		
Family Model	N/A		
Model Difference	N/A		
Product Description	The EUT is a Wireless touch keypad Operation Frequency: 13.56MHz Modulation Type: ASK Number Of Channel 1CH. Antenna Designation: Induction coil		
Battery	DC 1.5V, 2900mAh, 4 X AAA Alkaline Battery		
Power supply	DC 3V from battery		
HW Version	KPP.001.MBR.001v12 CFM.001.MBR.001v2 KPP.001.ANT.001v9		
FW version	NA		
SW Version	5.57.x.x		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.





2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX-13.56MHz

For Radiated Emission		
Final Test Mode	Description	
Mode 1	TX-13.56MHz	





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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TES	STED
For Bodistod Toot Coops	
For Radiated Test Cases	
E-1 EUT	
For Conducted Test Cases	
C-1	
MeasurementEUT	
Instrument	
Note: The temperary entenne connector is coldered on the DCB heard in ord	or to porform conducted
Note: The temporary antenna connector is soldered on the PCB board in ordetests and this temporary antenna connector is listed in the equipment list.	er to perform conducted



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2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Model/Type No.	Series No.	Note
EUT	Wireless touch keypad	KPPJ0001NA	N/A	

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4440A	MY41000130	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.05.29	2024.05.28	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.15	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
8	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.04	2023.11.03	1 year
9	LF Cable	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
10	MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2023.05.29	2024.05.28	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3year

AC Conduction Test equipment

ì	C Conduction rest equipment							
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
	1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
	2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
	3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
	4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
	5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
	6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
	7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note:

- 1.We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list
- 2. Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.





3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
3.2 EUT ANTENNA
The EUT antenna is permanent attached antenna. It comply with the standard requirement.





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

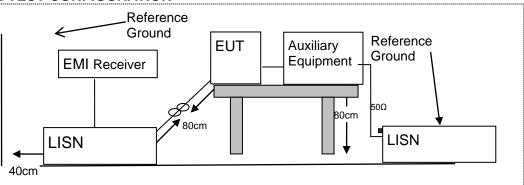
4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Frequency(MHz)	Conducted Emission Limit		
Frequency(wii iz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 TEST CONFIGURATION



4.1.3 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.





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4.1.4 TEST RESULT

EUT:	Wireless touch keypad	Model Name :	KPPJ0001NA
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode :	N/A

Note: The EUT is powered by battery, so this item is not applicable

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.225)

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters, equal to 104dBuV/m at 3 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, equal to 74.5dBuV/m at 3 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, equal to 60.5dBuV/m at 3 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

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Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz And above 1GHz,
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

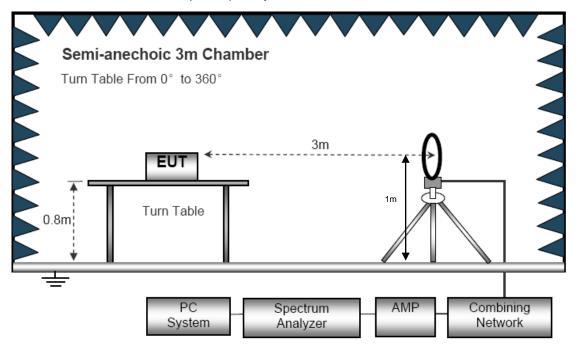
No deviation



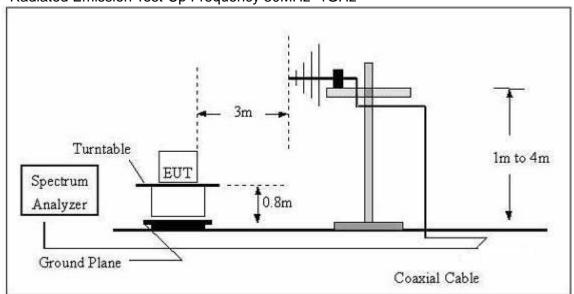


4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



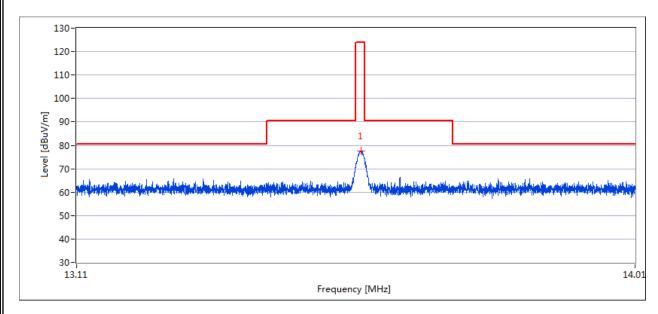




4.2.5 TEST RESULTS (BELOW 30MHz)

EUT:	Wireless touch keypad	Model Name. :	KPPJ0001NA
Temperature :	20 ℃	Relative Humidtity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX-13.56MHz		

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB	Polar
13.560	77.7	77.7	124.0	46.3	Х

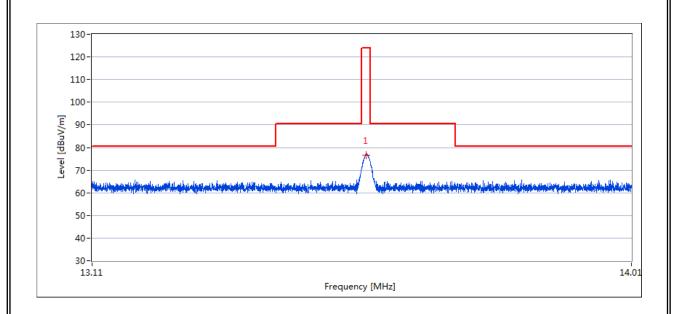






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Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB	Polar
13.560	76.9	77.5	124.0	46.5	Υ

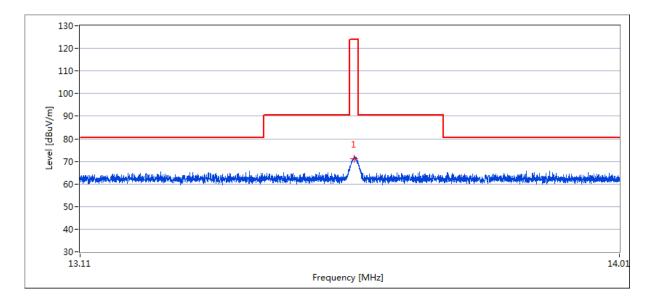






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Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB	Polar
13.561	73.2	72.9	124.0	51.1	Z







Spurious emissions at 9kHz~13.110MHz & 14.010MHz~30MHz

Frequency	Ant.Pol.	Emission	Limits	Margin	Remark
		Level			
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.072	Χ	42.8	110.458	-67.66	Avg
0.363	Χ	43.3	96.406	-53.11	Avg
0.862	Χ	23.29	68.894	-45.60	QP
4.519	Χ	23.42	69.542	-46.12	QP
11.854	Χ	23.53	69.542	-46.01	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees



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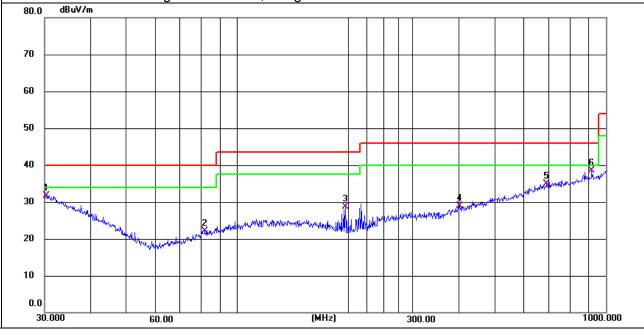
4.2.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

EUT:	Wireless touch keypad	Model Name :	KPPJ0001NA
Temperature :	20 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX	Polarization :	Horizontal

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	30.3170	5.40	26.29	31.69	40.00	-8.31	QP
Н	81.7831	6.56	15.63	22.19	40.00	-17.81	QP
Н	196.5098	12.28	16.39	28.67	43.50	-14.83	QP
Н	400.4318	5.73	23.22	28.95	46.00	-17.05	QP
Н	691.9864	7.04	27.84	34.88	46.00	-11.12	QP
Н	916.0683	7.51	30.97	38.48	46.00	-7.52	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit







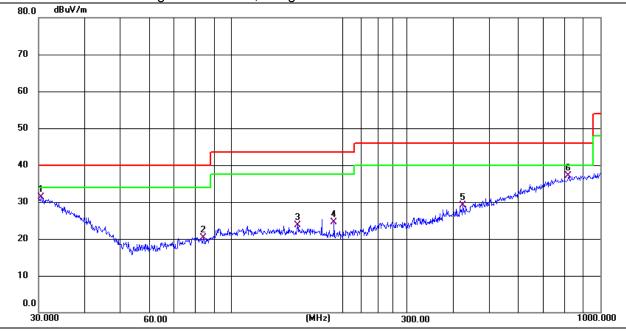
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EUT:	Wireless touch keypad	Model Name :	KPPJ0001NA
Temperature :	20 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX	Polarization :	Vertical

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.5304	5.17	26.17	31.34	40.00	-8.66	QP
V	83.8155	4.41	15.91	20.32	40.00	-19.68	QP
V	151.0663	5.30	18.49	23.79	43.50	-19.71	QP
V	189.7384	7.95	16.48	24.43	43.50	-19.07	QP
V	423.5402	5.32	23.72	29.04	46.00	-16.96	QP
V	821.7103	7.38	29.80	37.18	46.00	-8.82	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit









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5. BANDWIDTH TEST

5.1 TEST PROCEDURE

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.

5.2 DEVIATION FROM STANDARD

FCC Part15.225

5.3 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

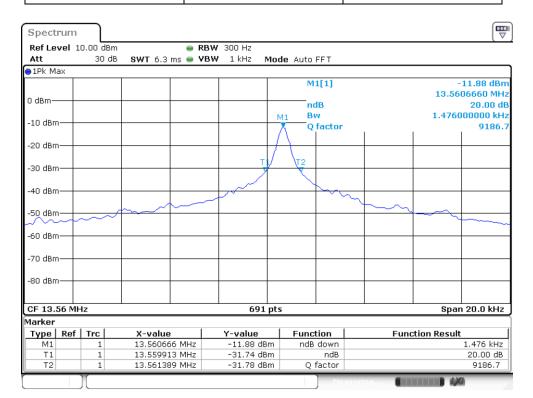




5.4 TEST RESULTS

EUT:	Wireless touch keypad	Model Name :	KPPJ0001NA
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1020 hPa	Test Power :	DC 3V
Test Mode :	TX		

Test Channel	Frequency	20 dBc Bandwidth
103t Oriannoi	(MHz)	(kHz)
CH01	13.56	1.476







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6. FREQUENCY TOLERANCE

6.1 Requirement:

Test FCC Part15.225

Requirement: Test Method:

ANSI C63.4:2003

Requirement: The frequency tolerance of the carrier signal shall be maintained

within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests

shall be performed using a new battery.

6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.

2.Set EUT as normal operation

3.Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.

4.Set SPA Max hold. Mark peak.





Test Result

Power Supply	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (MHz)	Result (ppm)	Part 15.225 Limit
	-20	13.56061	0.00061	44.99	+/- 0.01%(100ppm)
DC 3.3V	20	13.56066	0.00066	48.67	+/- 0.01%(100ppm)
	50	13.56064	0.00064	47.20	+/- 0.01%(100ppm)
DC 3V	-20	13.56064	0.00064	47.20	+/- 0.01%(100ppm)
	20	13.56067	0.00067	49.41	+/- 0.01%(100ppm)
	50	13.56065	0.00065	47.94	+/- 0.01%(100ppm)
DC 2.7V	-20	13.56059	0.00059	43.51	+/- 0.01%(100ppm)
	20	13.56063	0.00063	46.46	+/- 0.01%(100ppm)
	50	13.56064	0.00064	47.20	+/- 0.01%(100ppm)

END REPORT