

# **TEST REPORT**

FCC ID: 2ABFV-PRO10

**Product: Touch Smart Pro10** 

**Model No.: Touch Smart Pro10** 

Additional Model No.: Touch Smart Pro10 LTE, Touch Smart Workcab 10

Trade Mark: Touch Smart

Report No.: TCT180413E010

Issued Date: May 04, 2018

Issued for:

PC Smart S.A.

Carrera 116 no.15-25 Bogota, Colombia

Issued By:

Shenzhen Tongce Testing Lab.

1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

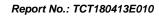
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### 1. Test Certification

Product:	Touch Smart Pro10
Model No.:	Touch Smart Pro10
Additional Model:	Touch Smart Pro10 LTE, Touch Smart Workcab 10
Trade Mark:	Touch Smart
Applicant:	PC Smart S.A.
Address:	Carrera 116 no.15-25 Bogota, Colombia
Manufacturer:	PC Smart S.A.
Address:	Carrera 116 no.15-25 Bogota, Colombia
Date of Test:	Apr. 13, 2018 – May 03, 2018
Applicable Standards:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part27

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Gal on	Date:	May 03, 2018
<u> </u>	Garen		
Reviewed By:	Benyl was	Date:	May 04, 2018
	Beryl Zhao	_	(c)
Approved By:	foms m	Date:	May 04, 2018
<u> </u>	Tomain		



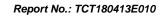


# 2. Test Result Summary

Requirement	CFR 47 Section	Result			
Conducted Output Power	§2.1046; §27.50(h); §27.50(c);§27.50(d);	PASS			
Peak-to-Average Ratio	§27.50	PASS			
Effective (Isotropic) Radiated Power	§2.1046; §27.50(d); §27.50(h); §27.50(c);	PASS			
Occupied Bandwidth	§2.1049;§27.53(h)(3); §27.53(m)(6);	PASS			
Band Edge	§2.1051; §27.53(g); §27.53(h); §27.53(m);	PASS			
Conducted Spurious Emission	§2.1051; §27.53(g); §27.53(h); §27.53(m);	PASS			
Field Strength of Spurious Radiation	§2.1053; §27.53(g); §27.53(h); §27.53(m)	PASS			
Frequency Stability for Temperature & Voltage	§2.1055;§27.54;	PASS			

#### Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





# 3. EUT Description

Product:	Touch Smart Pro10				
Model No.:	Touch Smart Pro10				
Additional Model:	Touch Smart Pro10 LTE, Touch Smart Workcab 10				
Trade Mark:	Touch Smart				
Hardware version:	T1.1				
Software version:	6.0				
Tx Frequency:	LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 7: 2500 MHz ~ 2570 MHz				
Rx Frequency:	LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 7: 2620 MHz ~ 2690 MHz				
Bandwidth:	LTE Band 4: 1.4MHz /3MHz /5MHz /10MHz /15MHz / 20MHz LTE Band 7: 5MHz /10MHz /15MHz / 20MHz				
Maximum Output Power to Antenna:	LTE Band 4: 24.29dBm LTE Band 7: 22.96dBm				
99% Occupied Bandwidth:	LTE Band 4: 18M0G7D LTE Band 7: 18M0G7D				
Type of Modulation:	QPSK / 16QAM				
Antenna Type:	PIFA Antenna				
Antenna Gain:	LTE Band 4: -2.0dBi LTE Band 7: -2.0dBi				
Power Supply:	Rechargeable Li-ion battery DC 3.8V				
AC adapter:	Adapter Information: Model: ASA2016 Input: 100-240Vac, 50/60Hz 0.5A Output: 5V - 2000mA				



### 4. Genera Information

## 4.1. Test environment and mode

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

The sample was placed 0.8m 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.



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### **Description Operation Frequency**

#### Test channels:

LTE BAND 4												
BW(MHz)	UL Channel	Frequency(MHz)										
1.4	19957	1710.7										
3	19965	1711.5										
5	19975	1712.5										
10	20000	1715										
15	20025	1717.5										
20	20050	1720										
1.4/3/5/10/15/20	20175	1732.5										
1.4	20393	1754.3										
3	20385	1753.5										
5	20375	1752.5										
10	20350	1750										
15	20325	1747.5										
20	20300	1745										
	BW(MHz)  1.4  3  5  10  15  20  1.4/3/5/10/15/20  1.4  3  5  10  15	BW(MHz)         UL Channel           1.4         19957           3         19965           5         19975           10         20000           15         20025           20         20050           1.4/3/5/10/15/20         20175           1.4         20393           3         20385           5         20375           10         20350           15         20325										

	LTE BA	ND 7			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)		
	5	20775	2502.5		
. (5%)	10	20800	2505		
Low Range	15	20825	2507.5		
	20	20850	2510		
Mid Range	5/10/15/20	21100	2535		
	5	21425	2567.5		
15.1.5	10	21400	2565		
High Range	15	21375	2562.5		
	20	21350	2560		

Note 1: both QPSK&16QAM modulation has been measured; Note 2: The worst condition was recorded in the test report if no other modes test data.



#### 4.2. Test Mode

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Mode										
Band Radiated TCs Conducted										
LTE Band 4	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)								
LTE Band 7	QPSK Link (5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (5MHz / 10MHz / 15MHz / 20MHz)								

Antenna port conducted and radiated test items were performed according to KDB 971168 D02 Power Meas. License Digital Systems v02r02 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

							~ ~ ~ .								
Total Homos	Band		Bandwidth (MHz)				Modulation		RB#			Test Channel			
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Max. Output	4	v	v	V	v	v	v	v	v	v	v	v	V	v	v
Power	7			V	v	v	v	v	C y	v	v	v	v	v	v
Peak-to-Average	4	v	v	V	v	v	v	v	v	v	v	v	٧	v	v
Ratio	7			v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99%	4	V	v	v	v	٧	V	v	v			v	v	v	V
Bandwidth	7			v	v	v	v	v	v			v	v	v	v

Test Items	Band		В	andwid	lth (MH	lz)		Mode	ulation		RB#		Tes	t Chan	nel
rest items	Бапо	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
	4	v	v	٧	v	v	v	v	v	v		v	V		٧
Conducted	7			v	V	v	v	v	v	٧		v	V		v
	4	v	v	v	v	v	V	v	v	V	(°)		v	v	V
Conducted Spurious	7			v	v	v	v	v	v	٧			v	v	٧
	4				v			v	v			v		v	
Frequency	7			ZC)	v			v	C v			v		v	
	4	v	v	V	V	v	v	v	V	v	v	v	V	v	v
E.R.P./ E.I.R.P.	7			v	v	v	v	v	v	v	v	v	v	v	v
Radiated	4	V						v	v	v			v	v	V
Spurious	7			V				v	v	V			v	v	V



Note

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The mark "v" means that this configuration is chosen for testing

2. The mark "-" means that this bandwidth is not supported.

### 4.3. Description of Support Units

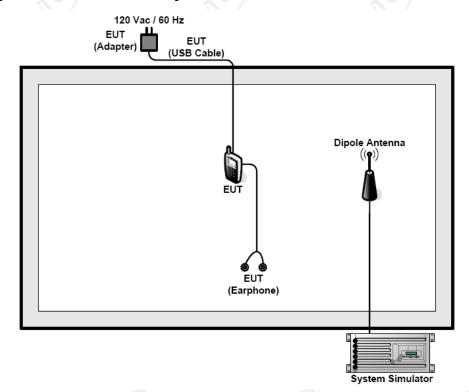
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 4.4. Configuration of Tested System



### 4.5. Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Offset = RF cable loss + attenuator factor.

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### 5. Facilities and Accreditations

#### 5.1. Facilities

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

• FCC - Registration No.: 645098

#### **Shenzhen Tongce Testing Lab.**

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

#### 5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

### 5.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



### 6. Test Results and Measurement Data

### **6.1. Conducted Output Power Measurement**

### 6.1.1. Test Specification

Test Requirement:	FCC part 27.50(c), FCC part 27.50(d) and FCC part 27.50(h)
Test Method:	FCC part 2.1046
Limits:	LTE Band 4: 1W LTE Band 7: 2W
Test Setup:	System Simulator
Test Procedure:	<ol> <li>The transmitter output port was connected to the system simulator.</li> <li>Set EUT at maximum power through system simulator.</li> <li>Select lowest, middle, highest channels for each band and different modulation.</li> <li>Measure and record the power level from the system simulator.</li> </ol>
Test Result:	PASS

#### 6.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
RF cable (9kHz-40GHz)	тст	RE-05	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-02	N/A	Sep. 27, 2018

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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### 6.2. Peak to Average Ratio

### 6.2.1. Test Specification

Test Requirement:	FCC part 27.50,		
Test Method:	FCC KDB 971168 v02r02		
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.		
Test Setup:	System Simulator  Fower DIVIder  EUT  Spectrum Analyzer		
Test Procedure:	<ol> <li>The testing follows FCC KDB 971168 v02r02 Section 5.7.1.</li> <li>The EUT was connected to spectrum analyzer and system simulator via a power divider.</li> <li>Set EUT to transmit at maximum output power.</li> <li>Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.</li> <li>Record the maximum PAPR level associated with probability of 0.1%.</li> </ol>		
Test Result:	PASS		

#### 6.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018
RF cable (9kHz-40GHz)	TCT	RE-05	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-02	N/A	Sep. 27, 2018

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 6.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 6.3.1. Test Specification

Test Requirement:	FCC part 27.53(h)(3) and FCC part 27.53(m)(6),			
1 oot Roquitolliont.	FCC part 2.1049			
Test Method:	FCC part 2.1049			
Limit:	N/A			
Test Setup:	System Simulator  EUT  Spectrum Analyzer			
Test Procedure:	<ol> <li>The testing follows FCC KDB 971168 v02r02 Section 4.2.</li> <li>The EUT was connected to the spectrum analyzer and system simulator via a power divider.</li> <li>The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>The 99% occupied bandwidth were measured, set RBW= 1% of OBW, VBW= 3*RBW, sample detector trace maximum hold.</li> <li>The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.</li> </ol>			
Test Result:	PASS			

#### 6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018
RF cable (9kHz-40GHz)	TCT	RE-05	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-02	N/A	Sep. 27, 2018

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



# 6.4. Band Edge and Conducted Spurious Emission Measurement

## 6.4.1. Test Specification

Test Requirement:	FCC part 27.53(h), FCC part 27.53(g), FCC part 27.53(m)(4),
Test Method:	FCC part2.1051
Limit:	-13dBm
Test Setup:	System Simulator  Power Divider  EUT  Spectrum Analyzer
Test Procedure:	<ol> <li>The testing follows FCC KDB 971168 v02r02 Section 6.0.</li> <li>The EUT was connected to the spectrum analyzer and system simulator via a power divider.</li> <li>The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.         The path loss was compensated to the results for each measurement.     </li> <li>The band edges of low and high channels for the highest RF powers were measured.</li> <li>The conducted spurious emission for the whole frequency range was taken.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> <li>The limit line is derived from 43 + 10log(P) dB below the transmitter power         P(Watts) = P(W) - [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.         For Band 17, he limit line is derived from 55 + 10log(P) dB below the transmitter power</li> </ol>
Test Result:	PASS
7.	



#### 6.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018
RF cable (9kHz-40GHz)	тст	RE-05	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-02	N/A	Sep. 27, 2018

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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## 6.5. Field Strength of Spurious Radiation Measurement

### 6.5.1. Test Specification

	FCC part 27.53(g) ,FCC part 27.53(h),			
Test Requirement:	FCC part 27.53(m)(4),			
Test Method:	FCC part 2.1053			
Limit:	30MHz~20GHz -13dBm			
Test setup:	From 30MHz to 1GHz  RX Antenna  Ant. feed point  Spectrum Analyzer / Receiver  Above 1GHz  Ant. feed point  Ant. feed point  Ant. feed point  Spectrum Analyzer / Receiver  Applications of the spectrum Analyzer / Receiver  Applications of the spectrum Analyzer / Receiver			
Test Procedure:	<ol> <li>The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010Section 2.2.12.</li> <li>The EUT was placed on a rotatable wooden table 0.8 meters above the ground.</li> <li>The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.</li> <li>The table was rotated 360 degrees to determine the position of the highest spurious emission.</li> <li>The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.</li> </ol>			



Test results:	10log(P) dB below the transmitter power PASS
	<ul> <li>6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.</li> <li>7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.</li> <li>8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.</li> <li>9. Taking the record of output power at antenna port.</li> <li>10. Repeat step 7 to step 8 for another polarization.</li> <li>11. EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain</li> <li>12. ERP (dBm) = EIRP - 2.15</li> <li>13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> <li>14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)</li> <li>= P(W) - [43 + 10log(P)] (dB)</li> <li>= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)</li> <li>= -13dBm.</li> <li>For Band 17, he limit line is derived from 55 +</li> </ul>

### 6.5.2. Test Instruments

Radiated Emission Test Site (966)						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
System simulator	R&S	CMU200	111382	Sep. 27, 2018		
Spectrum Analyzer	ROHDE&SCHW ARZ	R&S	FSQ	Sep. 27, 2018		
Signal Generator	HP	83623B	3614A00396	Sep. 27, 2018		
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018		
Broadband Antenna	Schwarzbeck	VULB9163	412	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Mar. 05, 2018		
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018		
Dipole Antenna	TCT	TCT-RF	N/A	Sep. 27, 2018		
Coax cable (9kHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018		



Coax cable (9kHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9kHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9kHz-40GHz)	ТСТ	RE-High-04	N/A	Sep. 27, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





# 6.6. Frequency Stability Measurement

### 6.6.1. Test Specification

Test Requirement:	FCC part 27.54					
•						
Test Method:	FCC Part 2.1055					
Limit:	$\pm$ 2.5 ppm					
Test Setup:	System Simulator  Thermal Chamber					
	Test Procedures for Temperature Variation					
	1. The testing follows FCC KDB 971168 v02r02 Section 9.0.					
	2. The EUT was set up in the thermal chamber and connected with the system simulator.					
	3. With power OFF, the temperature was decreased to					
	-30°C and the EUT was stabilized before testing.  Power was applied and the maximum change in frequency was recorded within one minute.					
	4. With power OFF, the temperature was raised in 10°C					
	steps up to 50°C. The EUT was stabilized at each					
Test Procedure:	step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.					
	Test Procedures for Voltage Variation					
	1. The testing follows FCC KDB 971168 v02r02 Section 9.0.					
	2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.					
	3. The power supply voltage to the EUT was varied from					
	BEP to 115% of the nominal value measured at the input to the EUT.					
	4. The variation in frequency was measured for the worst case.					
Test Result:	PASS					



### 6.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 12, 2018
Programable tempratuce and humidity chamber	JQ	JQ-2000	N/A	Sep. 27, 2018
DC power supply	Kingrang	KR3005K 30V/5A	N/A	Sep. 27, 2018
RF cable (9kHz-40GHz)	ТСТ	RE-04	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





### **Appendix A: Photographs of Test Setup**

Refer to test report TCT180413E001

Appendix B: Photographs of EUT

Refer to test report TCT180413E001

7. Test Data for Band 4 Band 7
Refer to Appendix Band 4 Band 7

\*\*\*\*\*END OF REPORT\*\*\*\*\*

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