

FCC Test Report FCC ID:2AJJYPT7003

Product: Android Smart POS

Trade Name: Anlinx

Model Number: PT7003

Serial Model: PT7003S PT7003M PT7003MS

Report No.: NTEK- 2016NT07016902F4

Prepared for

Shenzhen Anlinx Technology Company
RM 1302, 13/F, Building A3, LeeLang Software Park,No.31,Rd.BuLan,LongGang
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen	Anlinx Technology Company					
Address:	RM 1302, 13/F, Building A3, LeeLang Software Park, No.31,Rd.BuLan, LongGang District,City ShenZhen, 518112,P.R.China						
Manufacturer's Name:	Shenzhen	Shenzhen Anlinx Technology Company					
Address:	RM 1302, 13/F, Building A3, LeeLang Software Park, No.31,Rd.BuLan, LongGang District,City ShenZhen [,] 518112,P.R.China						
Product description							
Product name:	Android S	mart POS					
Model and/or type reference :	PT7003S	、PT7003M、PT7003MS					
Standards:	FCC Part ANSI C63	15B: 06 Sep.2016 3.4:2014					
	n complian	sted by NTEK, and the test results show that the ce with Part 15 of FCC Rules. And it is applicable only to					
·	•	t in full, without the written approval of NTEK, this TEK, personnel only, and shall be noted in the revision of					
Date of Test	:						
Date (s) of performance of tests	:	01 Jul. 2016 ~ 06 Sept. 2016					
Date of Issue	:	06 Sept. 2016					
Test Result	:	Pass					
Testing Engine	eer :	Eileen Wu. (Eileen Liu)					
Technical Man	ager •	Juson Chen)					
Technical Man	ay e i :	(Jason Chen)					
Authorized Sig	natory:	Sam. Chew					
		(Sam Chen)					



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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B:2016 ANSI C63.4: 2014	Conducted Emission	Class B	PASS				
	Radiated Emission	Class B	PASS				

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

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 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Android Smart POS				
Trade Name	Anlinx				
Model Name	PT7003				
Serial Model	PT7003S \ PT7003M \ P	T7003MS			
Model Difference	All the model are the same except the model name at	·			
	The EUT is a Industrial A	Android Smart POS.			
	Connecting I/O port:	USB, Earphone			
	Operation Frequency:	BT:2402~2480 MHz			
		WIFI:802.11b/g/n(20MHz): 2412~2462MHz			
		802.11n(40MHz):2422~2452MHz			
		GSM: 1850.2-1909.8MHz			
		WCDMA: 1852.4-1907.6MHz			
		LTE TDD BAND 41:2547.5MHz~2652.5MHz			
D 1 (D ; C		NFC: 13.56MHz			
Product Description	Modulation Type:	BT(1Mbps)/BLE: GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) GSM / DCS: GMSK WCDMA:QPSK			
		LTE TDD BAND 41: QPSK/16QAM			
		NFC: ASK			
Power Source	DC 7.4V or DC 9V From A	Adapter			
	Model: P24090250 EU	•			
Adapter	 Input: 100-240V~, 50-60H	lz,0.6A			
	Output: 9.0V ===, 2.5A				
Battery	DC 7.4V, 3900mAh				



2.1.1 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.

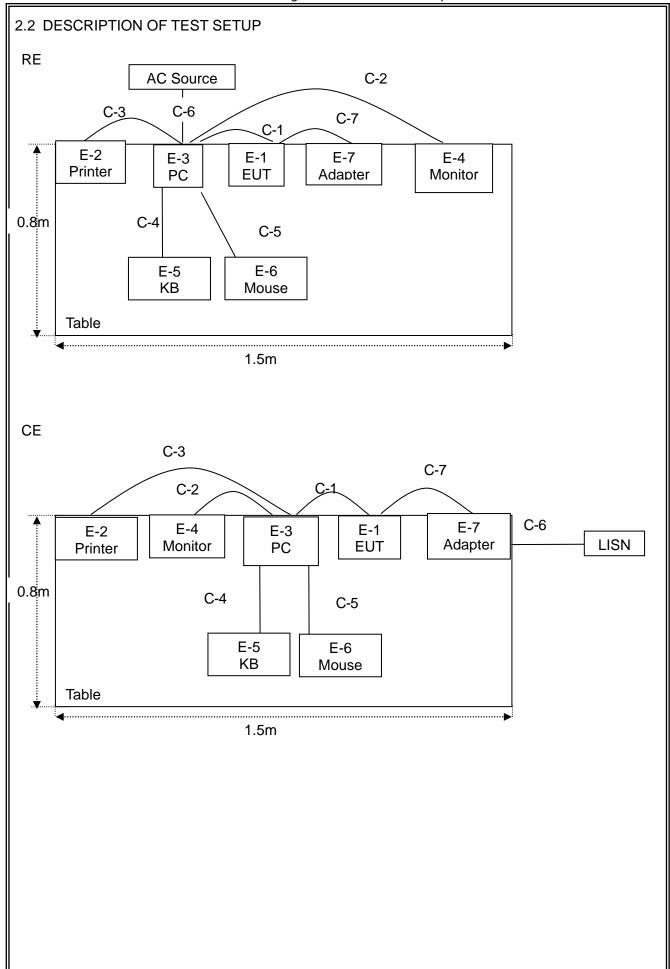
Pretest Mode	Description
Mode 1	Connect to PC
Mode 2	Camera
Mode 3	TF card Play
Mode 4	"H" Pattern

For Conducted Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	Camera			
Mode 3	TF card Play			
Mode 4	"H" Pattern			

For Radiated Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	Camera			
Mode 3	TF card Play			
Mode 4	"H" Pattern			

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.







2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Brand	Model/Type No.	Series No.	Note
E-1	Android Smart POS	Anlinx	PT7003	RLTP5567-BLACK ,RLTP5 567-CHAMPAGNE, RLTP5567-WHITE, T4016,T5016,T4515,T501 5,T4010,T5010,T5012,T60 10	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67e s	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	
E-7	Adapter	N/A	P24090250 EU	N/A	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	unshielded	NO	1.2m	
C-2	VGA	unshielded	NO	1.0m	
C-3	USB Cable	unshielded	NO	1.2m	
C-4	USB Cable	unshielded	NO	1.0m	
C-5	USB Cable	unshielded	NO	1.0m	
C-6	Power Line	unshielded	NO	1.2m	
C-7	DC Cable	unshielded	Yes	1.0m	

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 <code>"Length_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2016.07.06	2017.07.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		
FREQUENCY (MHZ)	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

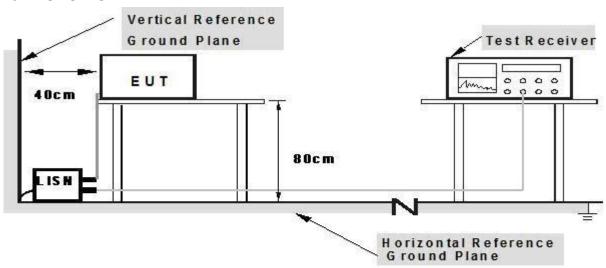
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected 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.
- b. 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 40 cm long.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

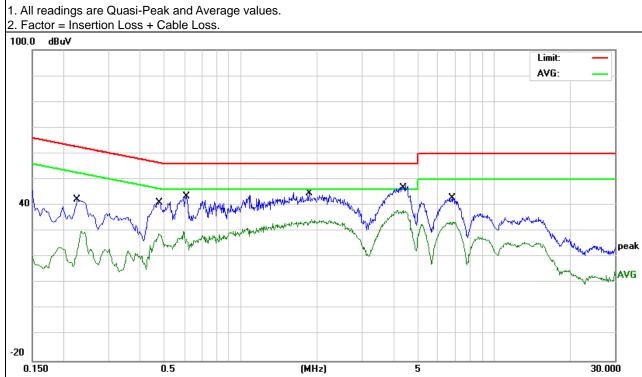
The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

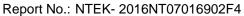


3.1.5 TEST RESULTS

EUT:	Android Smart POS	Model Name. :	PT7003		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-3-31		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 9V From Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.226	32.08	10.13	42.21	62.59	-20.38	QP
0.226	19.93	10.13	30.06	52.59	-22.53	AVG
0.4778	31.28	9.85	41.13	56.38	-15.25	QP
0.4778	19.13	9.85	28.98	46.38	-17.4	AVG
0.6097	33.6	9.79	43.39	56	-12.61	QP
0.6097	20.15	9.79	29.94	46	-16.06	AVG
1.866	34.9	9.75	44.65	56	-11.35	QP
1.866	24.59	9.75	34.34	46	-11.66	AVG
4.4019	37.92	9.75	47.67	56	-8.33	QP
4.4019	28.26	9.75	38.01	46	-7.99	AVG





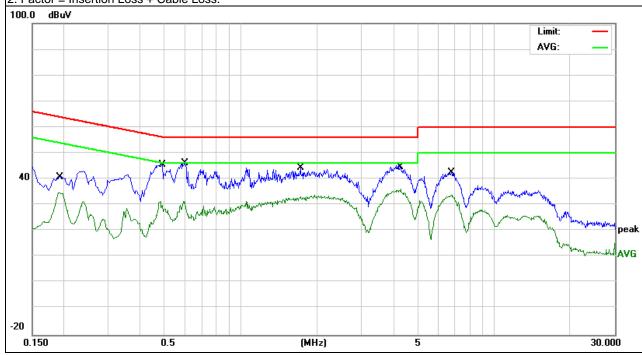


EUT:	Android Smart POS	Model Name.:	PT7003		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-3-31		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	DC 9V From Adapter AC 120V/60Hz				

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.19	31.32	10.03	41.35	64.03	-22.68	QP
0.19	24.86	10.03	34.89	54.03	-19.14	AVG
0.4899	35.69	9.84	45.53	56.17	-10.64	QP
0.4899	21.57	9.84	31.41	46.17	-14.76	AVG
0.6018	36.31	9.81	46.12	56	-9.88	QP
0.6018	21.6	9.81	31.41	46	-14.59	AVG
1.7218	34.51	9.78	44.29	56	-11.71	QP
1.7218	24.1	9.78	33.88	46	-12.12	AVG
4.2698	35.58	9.72	45.3	56	-10.7	QP
4.2698	26.43	9.72	36.15	46	-9.85	AVG

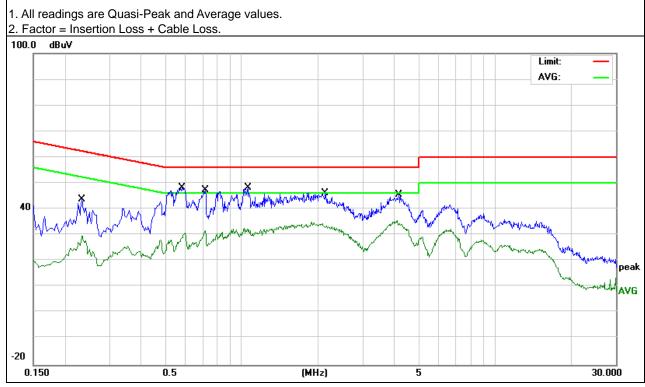
- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

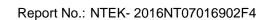




EUT:	Android Smart POS	Model Name. :	PT7003		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-3-31		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC9V From Adapter AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.234	33.59	10.13	43.72	62.3	-18.58	QP
0.234	19.5	10.13	29.63	52.3	-22.67	AVG
0.5819	38.54	9.79	48.33	56	-7.67	QP
0.5819	20.93	9.79	30.72	46	-15.28	AVG
0.7179	37.59	9.78	47.37	56	-8.63	QP
0.7179	21.86	9.78	31.64	46	-14.36	AVG
1.058	38.35	9.84	48.19	56	-7.81	QP
1.058	22.77	9.84	32.61	46	-13.39	AVG
2.1379	36.4	9.73	46.13	56	-9.87	QP
2.1379	25.03	9.73	34.76	46	-11.24	AVG

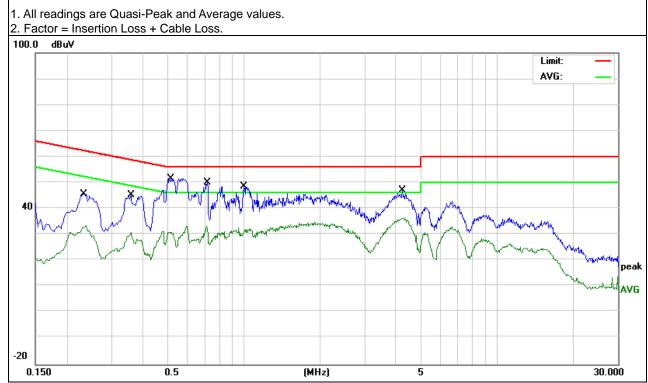






EUT:	Android Smart POS	Model Name. :	PT7003			
Temperature:	26 ℃	Relative Humidity:	54%			
Pressure:	1010hPa	Test Date:	2016-3-31			
Test Mode:	Mode 1 Phase : N					
Test Voltage:	DC9V From Adapter AC 240V/60Hz					

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorie
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.234	35.53	10.06	45.59	62.3	-16.71	QP
0.234	23.4	10.06	33.46	52.3	-18.84	AVG
0.3578	35.28	10.08	45.36	58.78	-13.42	QP
0.3578	20.86	10.08	30.94	48.78	-17.84	AVG
0.518	41.69	9.82	51.51	56	-4.49	QP
0.518	21.13	9.82	30.95	46	-15.05	AVG
0.7177	40.24	9.81	50.05	56	-5.95	QP
0.7177	23.3	9.81	33.11	46	-12.89	AVG
1.002	38.78	9.87	48.65	56	-7.35	QP
1.002	22.72	9.87	32.59	46	-13.41	AVG
4.2339	37.25	9.72	46.97	56	-9.03	QP
4.2339	26.88	9.72	36.6	46	-9.4	AVG

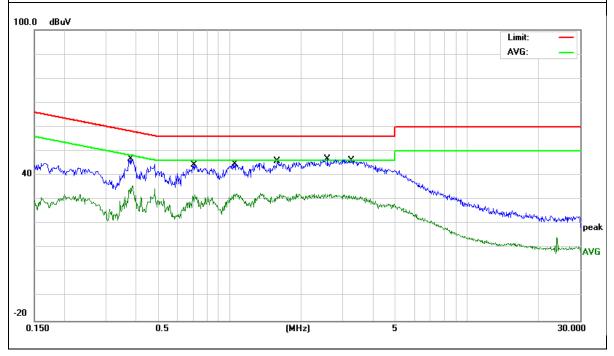




EUT:	Android Smart POS	Model Name. :	PT7003
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.382	36.74	9.96	46.7	58.23	-11.53	QP
0.382	22.81	9.96	32.77	48.23	-15.46	AVG
0.7097	34.54	9.77	44.31	56	-11.69	QP
0.7097	19.93	9.77	29.7	46	-16.3	AVG
1.054	34.79	9.76	44.55	56	-11.45	QP
1.054	22.57	9.76	32.33	46	-13.67	AVG
1.582	36.14	9.76	45.9	56	-10.1	QP
1.582	21.8	9.76	31.56	46	-14.44	AVG
2.5859	36.85	9.76	46.61	56	-9.39	QP
2.5859	22.37	9.76	32.13	46	-13.87	AVG
3.258	36.28	9.77	46.05	56	-9.95	QP
3.258	21.17	9.77	30.94	46	-15.06	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



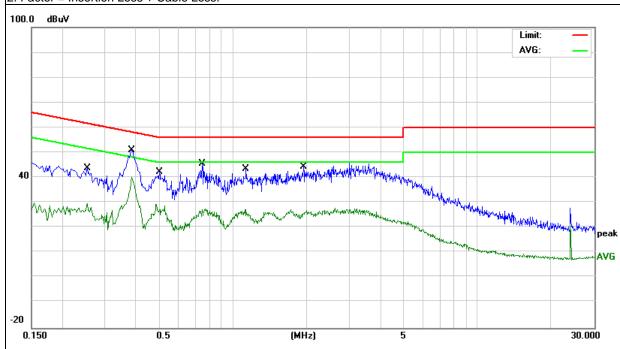


EUT:	Android Smart POS	Model Name. :	PT7003
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.254	33.56	10.14	43.7	61.62	-17.92	QP
0.254	19.42	10.14	29.56	51.62	-22.06	AVG
0.386	41.1	9.96	51.06	58.15	-7.09	QP
0.386	30.13	9.96	40.09	48.15	-8.06	AVG
0.502	32.34	9.84	42.18	56	-13.82	QP
0.502	17.54	9.84	27.38	46	-18.62	AVG
0.75	35.63	9.77	45.4	56	-10.6	QP
0.75	17.39	9.77	27.16	46	-18.84	AVG
1.1297	33.7	9.76	43.46	56	-12.54	QP
1.1297	17.52	9.76	27.28	46	-18.72	AVG
1.9457	34.51	9.75	44.26	56	-11.74	QP
1.9457	16.09	9.75	25.84	46	-20.16	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

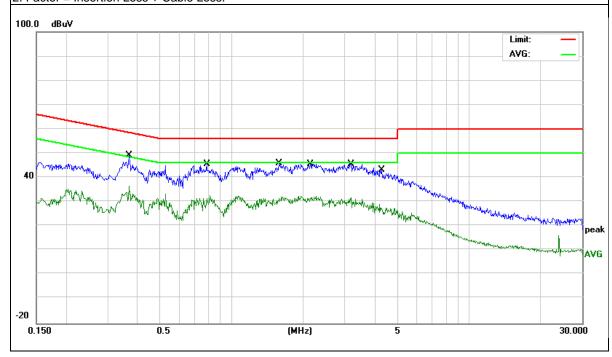




EUT:	Android Smart POS	Model Name. :	PT7003
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 240\//60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damadı
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.3699	39.31	9.99	49.3	58.5	-9.2	QP
0.3699	26.63	9.99	36.62	48.5	-11.88	AVG
0.786	35.92	9.76	45.68	56	-10.32	QP
0.786	21.71	9.76	31.47	46	-14.53	AVG
1.582	36.14	9.76	45.9	56	-10.1	QP
1.582	21.8	9.76	31.56	46	-14.44	AVG
2.1538	35.94	9.75	45.69	56	-10.31	QP
2.1538	22	9.75	31.75	46	-14.25	AVG
3.1819	35.91	9.77	45.68	56	-10.32	QP
3.1819	21.23	9.77	31	46	-15	AVG
4.3139	33.23	9.78	43.01	56	-12.99	QP
4.3139	17.4	9.78	27.18	46	-18.82	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

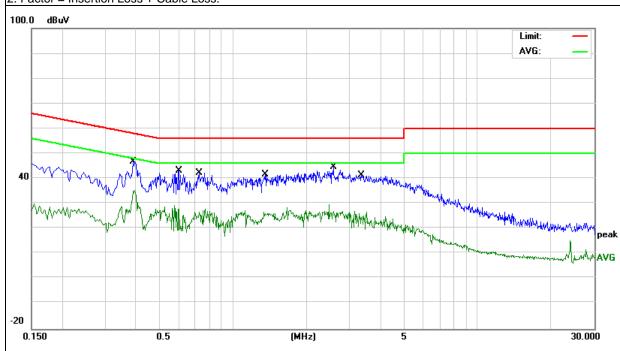




EUT:	Android Smart POS	Model Name.:	PT7003
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 240V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damanis
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.3899	36.75	9.95	46.7	58.06	-11.36	QP
0.3899	25.08	9.95	35.03	48.06	-13.03	AVG
0.6018	33.5	9.8	43.3	56	-12.7	QP
0.6018	18.14	9.8	27.94	46	-18.06	AVG
0.7298	32.55	9.77	42.32	56	-13.68	QP
0.7298	16.79	9.77	26.56	46	-19.44	AVG
1.354	31.87	9.75	41.62	56	-14.38	QP
1.354	16.18	9.75	25.93	46	-20.07	AVG
2.5739	34.86	9.76	44.62	56	-11.38	QP
2.5739	16.57	9.76	26.33	46	-19.67	AVG
3.358	31.53	9.77	41.3	56	-14.7	QP
3.358	14.82	9.77	24.59	46	-21.41	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





B.1.6 RADIATED EMISSION MEASUREMENT

3.1.7 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.1.8 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst



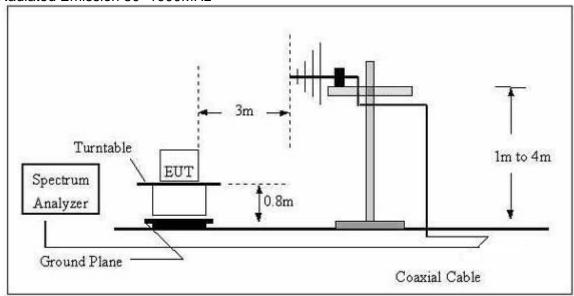
case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

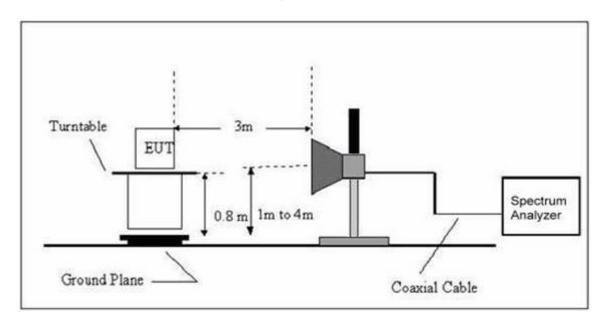
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Avg	1 MHz	10 Hz

3.1.9 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz





3.1.10 TEST RESULTS

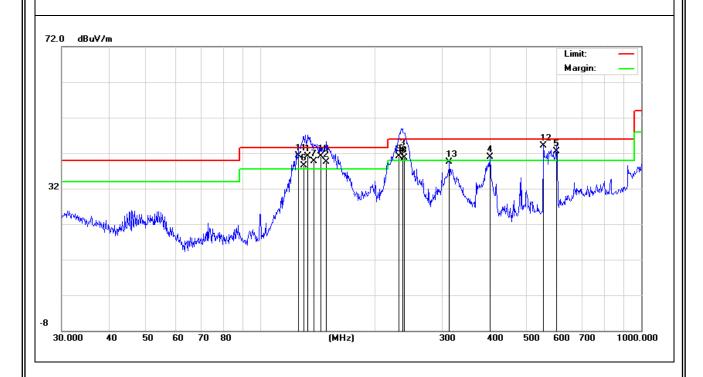
TEST RESULTS (30~1000 MHz)

EUT:	Android Smart POS	Model Name.:	PT7003		
Temperature:	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-3-31		
Test Mode :	Mode 1	Polarization:	Horizontal		
Test Power ·	DC 9V From Adapter AC 120V/60Hz				

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	133.1511	29.17	12.03	41.20	43.50	-2.30	QP
Н	148.9625	26.87	12.73	39.60	43.50	-3.90	QP
Н	235.8164	30.80	12.00	42.80	46.00	-3.20	QP
Н	400.4318	24.89	16.10	40.99	46.00	-5.01	QP
Н	599.3212	21.90	20.60	42.50	46.00	-3.50	QP
Н	129.9225	26.54	11.99	38.53	43.50	-4.97	QP
Н	137.9028	27.62	12.08	39.70	43.50	-3.80	QP
Н	238.3102	28.65	11.98	40.63	46.00	-5.37	QP
Н	230.9068	29.04	12.05	41.09	46.00	-4.91	QP
Н	143.8291	28.72	12.32	41.04	43.50	-2.46	QP
Н	125.8863	29.46	11.80	41.26	43.50	-2.24	QP
Н	552.8831	24.79	19.31	44.10	46.00	-1.90	QP
Н	313.2760	25.15	14.34	39.49	46.00	-6.51	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





EUT:	Android Smart POS	Model Name.:	PT7003		
Temperature:	24 °C	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-3-31		
Test Mode:	Mode 1 Polarization : Vertical				
Test Power :	DC 9V From Adapter AC 120V/60Hz				

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	133.6188	22.26	12.04	34.30	43.50	-9.20	QP
V	233.3487	22.56	12.02	34.58	46.00	-11.42	QP
V	552.8832	18.99	19.31	38.30	46.00	-7.70	QP
V	922.5157	11.84	26.39	38.23	46.00	-7.77	QP
V	39.9941	20.36	15.18	35.54	40.00	-4.46	QP
V	45.2165	22.17	12.14	34.31	40.00	-5.69	QP
V	46.0163	23.27	11.32	34.59	40.00	-5.41	QP
V	46.6664	24.51	11.07	35.58	40.00	-4.42	QP
V	47.9938	22.86	10.57	33.43	40.00	-6.57	QP
V	44.5867	21.67	12.78	34.45	40.00	-5.55	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



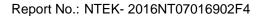


3.1.11 TEST RESULTS(1000~12400MHz)

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2615	48.62	-12.23	36.39	74	-37.61	peak
V	2615	36.93	-12.23	24.7	54	-29.3	AVG
V	3337.5	47	-10.61	36.39	74	-37.61	peak
V	3337.5	35.71	-10.61	25.1	54	-28.9	AVG
V	9202.5	34.75	1.62	36.37	74	-37.63	peak
V	9202.5	22.98	1.62	24.6	54	-29.4	AVG
V	13622.500	35.63	6.27	41.9	74	-32.1	peak
V	13622.5	23.73	6.27	30	54	-24	AVG
Н	2062.5	48.06	-12.21	35.85	74	-38.15	peak
Н	2062.5	34.11	-12.21	21.9	54	-32.1	AVG
Н	3210	48.38	-10.94	37.44	74	-36.56	peak
Н	3210	36.74	-10.94	25.8	54	-28.2	AVG
Н	8862.5	35.19	1.01	36.2	74	-37.8	peak
Н	8862.5	24.49	1.01	25.5	54	-28.5	AVG
Н	13367.500	34.49	7.02	41.51	74	-32.49	peak
Н	13367.5	22.28	7.02	29.3	54	-24.7	AVG

Remark:

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





4. EUT TEST PHOTO











Conducted Measurement Photos



