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Prepared by:

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Aug. 25, 2016

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Kevin yang (Project Engineer)



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2 Version

Page 2 of 42

Version No.	Date	Description	S)
00	Aug. 25, 2016	Original	













3 Test Summary

Page 3 of 42

Test Item	Test Requirement	Test method	PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013		
Radiated Emission	47 CFR Part 15 Subpart C Section 15.209; 15.225(a)(b)(c)(d)	ANSI C63.10-2013	PASS	
Frequency Tolerance	47 CFR Part 15 Subpart C Section 15.225(e)	ANSI C63.10-2013	PASS	
Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215	ANSI C63.10-2013	PASS	

Remark:

The tested sample and the sample information are provided by the client.



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4 Contents

Page 4 of 42

			Page
1 COVER PAGE	~	~	
2 VERSION			2
3 TEST SUMMARY			3
4 CONTENTS			4
5 GENERAL INFORMATION		\sim	5
 5.1 CLIENT INFORMATION 5.2 GENERAL DESCRIPTION OF EUT. 5.3 PRODUCT SPECIFICATION SUBJECT 5.4 TEST ENVIRONMENT AND MODE 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 TEST LOCATION 5.7 TEST FACILITY 5.8 DEVIATION FROM STANDARDS 5.9 ABNORMALITIES FROM STANDARDS 5.10 OTHER INFORMATION REQUEST 5.11 MEASUREMENT UNCERTAINTY (1) 	CTIVE TO THIS STANDARD S. D CONDITIONS ED BY THE CUSTOMER 95% CONFIDENCE LEVELS, K=	2)	5 5 5 5 5 5 6 6 7 7 7 7 7
6 EQUIPMENT LIST			8
7 TEST RESULT & MEASUREMENT	⁻ DATA		
 7.1 ANTENNA REQUIREMENT 7.2 CONDUCTED EMISSIONS 7.3 RADIATED EMISSIONS 7.4 FREQUENCY TOLERANCE 7.5 OCCUPIED BANDWIDTH 			
APPENDIX 1 PHOTOGRAPHS OF T	EST SETUP		24
APPENDIX 2 PHOTOGRAPHS OF E	UT		26







5 General Information

5.1 Client Information

Applicant:	BBPOS International Limited
Address of Applicant:	Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T. HK, Hong Kong
Manufacturer:	BBPOS International Limited
Address of Manufacturer:	Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, N.T. HK, Hong Kong

5.2 General Description of EUT

Product Name:	WisePad 2
Mode No.(EUT):	WisePad 2
Trade Mark:	BBPOS
EUT Supports Radios application:	BT 2.1(2402MHz-2480MHz), BT 4.0(2402MHz-2480MHz), NFC(13.56MHz), WIFIb/g/n(HT20)(2412MHz-2462MHz), 2G(850MHz/1900MHz)
Power Supply:	DC 3.7V by Battery DC 5V by USB port
Battery:	Li-polymer 3.7V, 750mAh

5.3 Product Specification subjective to this standard

Carrier Frequency:	13.56MHz	(\mathcal{C}^{*})	$\langle \mathcal{C}^{*} \rangle$
Modulation Type:	ASK		
Antenna Gain:	0dBi		
Sample Type:	Portable production	(*)	100
Antenna Type:	Integral	(\mathcal{A})	(2)
Test voltage:	AC 120V, 60Hz, DC 3.7V		e e
Sample Received Date:	Jul. 26. 2016		
Sample tested Date:	Jul. 26. 2016 to Aug. 25, 2016	3	185

5.4 Test Environment and Mode

Temperature:	21 °C			
Humidity:	54 % RH	13	(°))	10
Atmospheric Pressure:	1010 mbar			(a)
Test mode:		J		
Transmitter mode:	Keep the EUT	in transmitting mo	de (NFC mode) with modulation.	

5.5 Description of Support Units

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
laptop	LENOVO	E46L	FCC DOC	СТІ
Mouse	LENOVO	LXH-EMS-10ZA	FCC DOC	CTI



5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101 Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385 No tests were sub-contracted.

7 Test Facility

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

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A.

IC-Registration No.: 7408B

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.



The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096. Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration

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Page 7 of 42

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in

accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer None.

5.11 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE source conducted	0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
2	Dedicted Sources emission test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)
(y)	Conduction entire	3.6dB (9kHz to 150kHz)
4		3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%









6 Equipment List

Conducted disturbance Test						
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Receiver	R&S	ESCI	100009	06-16-2016	06-15-2017	
Temperature/ Humidity Indicator	TAYLOR	1451	1905	04-27-2016	04-26-2017	
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017	
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017	
LISN	R&S	ENV216	100098	06-16-2016	06-15-2017	
LISN	schwarzbeck	NNLK8121	8121-529	06-16-2016	06-15-2017	
Voltage Probe	R&S	ESH2-Z3	6	07-09-2014	07-07-2017	
Current Probe	R&S	EZ17	100106	06-16-2016	06-15-2017	
ISN	TESEQ GmbH	ISN T800	30297	01-29-2015	01-27-2017	

3		Conducted	RF test		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	R&S	FSP40	100416	06-16-2016	06-15-2017
Receiver	R&S	ESCI	100435	06-16-2016	06-15-2017
Noise generator	Beijing daming jidian	DM1661	126001	04-01-2016	03-31-2017
Attenuator	HuaXiang	INMET64671	INMET64671	04-01-2016	03-31-2017
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Attenuator	HuaXiang	SHX370	15040701	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002		01-12-2016	01-11-2017
High-pass filter	MICRO- TRONICS	SPA-F-63029-4	(F)	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001	9	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002		01-12-2016	01-11-2017







Page 9 of 42

	3M	Semi/full-anech	oic Chamber		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	ток	SAC-3		06-05-2016	06-05-2019
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	05-23-2016	05-22-2017
Microwave Preamplifier	Agilent	8449B	3008A02425	02-04-2016	02-03-2017
Horn Antenna	ETS-LINDGREN	3117	00057410	06-30-2015	06-28-2018
Horn Antenna	A.H.SYSTEMS	SAS-574	374	06-30-2015	06-28-2018
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Spectrum Analyzer	R&S	FSP40	100416	06-16-2016	06-15-2017
Receiver	R&S	ESCI	100435	06-16-2016	06-15-2017
Multi device Controller	maturo	NCD/070/10711 112		01-12-2016	01-11-2017
LISN	schwarzbeck	NNBM8125	81251547	06-16-2016	06-15-2017
LISN	schwarzbeck	NNBM8125	81251548	06-16-2016	06-15-2017
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	04-27-2016	04-26-2017
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017
Cable line	Fulai(7M)	SF106	5219/6A	01-12-2016	01-11-2017
Cable line	Fulai(6M)	SF106	5220/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5216/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5217/6A	01-12-2016	01-11-2017
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002		01-12-2016	01-11-2017
High-pass filter	MICRO- TRONICS	SPA-F-63029-4	(A)	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA03C L12-0394-001		01-12-2016	01-11-2017





Page 10 of 42

Report No. : EED32I00208202

7 Test Result & Measurement Data

7.1 Antenna Requirement

Standard Requirement: 47 CFR Part 15C Section 15.203

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.











7.2 Conducted Emissions

Test Requirement: Test Method: Test Frequency Range: 47 CFR Part 15C Section 15.207 ANSI C63.10-2013 150kHz to 30MHz











Test Mode: Instruments Used: Test Results:
 Limit (dBµV)

 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 logarithm of the frequency.

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu$ H + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 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: 2009 on conducted measurement.



Transmitting mode Refer to section 6 for details Pass

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Page 12 of 42

Report No. : EED32I00208202

Test Data

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

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







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Page 13 of 42



Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. 13.56MHz is the Fundamental field strength of NFC. According to the 15.207, the limit is not apply.





Page 14 of 42



7.3 Radiated Emissions

Test Requirement:	47 CFR Part 15 Subpart C Section 15.209; 15.225(a)(b)(c)(d)									
Test Method:	ANSI C63.10-2013									
Test Site:	3m (Semi-Anechoic Cham	ber)								
Requirements:	(a) The field strength of ar exceed	ny emissions wit	hin the bar	nd 13.553-1	3.567 MHz shall	not				
	15,848 microvolts/meter at	30 meters.								
	(b) Within the bands 13.4 ² of any emissions shall not	IO-13.553 MHz exceed 334 mic	and 13.567 rovolts/met	-13.710 Mł er at 30 me	⊣z, the field strei ters.	ngth				
	(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.									
	(d) The field strength of an band shall not exceed the	ny emissions ap general radiated	pearing ou emission l	tside of the imits in § 1	13.110-14.010 N 5.209.	√Hz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Quasi-peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Quasi-peak	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	0.110MHz-0.490MHz	Quasi-peak	10kHz	30kHz	Peak	2				
	0.110MHz-0.490MHz	Quasi-peak	10kHz	30kHz	Average					

Quasi-peak

Quasi-peak

Peak

Peak

10kHz

120 kHz

1MHz

1MHz

30kHz

300kHz

3MHz

10Hz

Quasi-peak

Quasi-peak Peak

Average

0.490MHz -30MHz

30MHz-1GHz

Above 1GHz

Test Setup:



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Report No. : EED32I00208202

Test Procedure:

- I00208202 Page 15 of 42 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of
 - receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The limit 1.705MHz to 30MHz in clause 4.3 are specified at 30 meters, and measurements were made at 3 meters, the limit is translated to 3 meters by using a formula as follows:

Limit3m = Limit30m + 40log(30m/3)

8. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode: Instruments Used: Test Result: 1.705-30MHz Mode

Refer to section 6 for details

Transmitting mode

Pass

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4: 2014, section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.







Page 16 of 42

	Frequency (MHz)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Read_Level (dBuV)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Polarization	Remark
	0.01489	17.52	0.04	62.35	79.91	124.13	-44.22	Х	РК
0	0.02838	14.67	0.06	59.37	74.10	118.53	-44.43	Х	РК
	0.08100	11.47	0.10	53.69	65.26	109.43	-44.17	Х	PK
	0.13830	11.40	0.11	49.07	60.58	104.78	-44.20	X	PK
	0.33727	11.30	0.11	41.35	52.76	97.04	-44.28	x	PK
	0.97282	11.39	0.13	32.25	43.77	67.81	-24.04	x	QP







Page 17 of 42



Frequency (MHz)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Read_Level (dBuV)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Polarization	Remark
1.821	11.40	0.19	23.73	35.32	69.50	-34.18	Х	QP
3.195	11.46	0.17	20.47	32.10	69.50	-37.40	Х	QP
6.450	11.09	0.32	17.98	29.39	69.50	-40.11	Х	QP
8.692	10.96	0.54	13.26	24.76	69.50	-44.74	X	QP
13.556	10.75	0.69	62.44	73.88	123.90	-50.02	X	QP
19.568	10.15	0.76	10.15	21.06	69.50	-48.44	Х	QP













13MHz~14.5MHz





Page 18 of 42

Frequency (MHz)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Read_Level (dBuV)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Polarization	Remark
13.280	10.76	0.68	32.99	44.43	80.50	-36.07	Х	QP
13.348	10.76	0.68	41.40	52.84	80.50	-27.66	Х	QP
13.561	10.75	0.69	63.80	75.24	123.90	-48.66	Х	QP
13.700	10.74	0.69	43.48	54.91	90.40	-35.49	Х	QP
13.776	10.74	0.69	42.00	53.43	80.50	-27.07	X	QP
14.119	10.73	0.69	27.17	38.59	69.50	-30.91	Сх	QP

Remark: The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case X axis is shown in the report.









Page 19 of 42

Report No. : EED32I00208202 30MHz-1000MHz



Frequency (MHz)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Read_Level (dBuV)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Polarization	Remark
39.576	14.14	0.55	11.26	25.95	40.00	-14.05	Horizontal	QP
100.934	13.12	1.57	8.58	23.27	43.50	-20.23	Horizontal	QP
180.017	10.90	1.98	18.12	31.00	43.50	-12.50	Horizontal	QP
299.316	13.49	2.38	16.06	31.93	46.00	-14.07	Horizontal	QP
420.580	16.64	2.88	17.69	37.21	46.00	-8.79	Horizontal	QP
900.147	22.40	4.34	13.17	39.91	46.00	-6.09	Horizontal	QP









Page 20 of 42

Report No. : EED32I00208202



Frequency (MHz)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Read_Level (dBuV)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Polarization	Remark
35.875	13.56	0.78	14.09	28.43	40.00	-11.57	Vertical	QP
61.132	13.39	1.43	11.15	25.97	40.00	-14.03	Vertical	QP
100.934	13.12	1.57	9.32	24.01	43.50	-19.49	Vertical	QP
180.017	10.90	1.98	18.46	31.34	43.50	-12.16	Vertical	QP
300.367	13.51	2.38	17.32	33.21	46.00	-12.79	Vertical	QP
782.345	21.39	3.89	14.28	39.56	46.00	-6.44	Vertical	QP

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor







7.4 Frequency Tolerance

Test Requirement: 47 CFR Part 15 Subpart C Section 15.225(e) **Test Method:** ANSI C63.10-2013 Operation within the band 13.110-14.010 MHz Frequency range: The frequency tolerance of the carrier signal shall be maintained within +/-



Test Mode:

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.

Transmitter mode

Pass

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.

Instruments Used: Refer to section 6 for details

Test Result:

Method of measurement:

Test Frequency: 13.	56MHz	(C)	Tem	perature:22°C
Supply Voltage (V)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
3.7	13.5607	0.7	1.356	Pass

Test Frequency: 13	8.56MHz	Temp	Temperature:20℃		
Supply Voltage (V)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result	
3.1	13.5605	0.5	1.356	Pass	
3.4	13.5607	0.7	1.356	Pass	
3.7	13.5601	0.1	1.356	Pass	
4.0	13.5607	0.7	1.356	Pass	
4.3	13.5607	0.7	1.356	Pass	

Test Frequency: 13	.56MHz	Vo	Itage: 3.7V	
Temperature (℃)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
-20	13.5605	0.5	1.356	6
-10	13.5607	0.7	1.356	
0	13.5601	0.1	1.356	
10	13.5605	0.5	1.356	Dees
20	13.5607	0.7	1.356	Pass
30	13.5601	0.1	1.356	
40	13.5605	0.5	1.356	
50	13.5607	0.7	1.356	







Page 22 of 42

Report No. : EED32I00208202



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Page 23 of 42

Report No. : EED32I00208202 7.5 Occupied Bandwidth



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Report No. : EED32100208202 APPENDIX 2 PHOTOGRAPHS OF EUT

Test mode No.: WisePad 2



















Page 28 of 42



















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Report No. : EED32I00208202











Page 32 of 42







































Page 36 of 42



























































Page 42 of 42

 Report No.: EED32100208202
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 Image: Comparison of the second secon

View of Product-33

*** End of Report ***

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