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**TEST REPORT** 

FCC ID: 2AKWC-E35 Product: TPMS Sensor Model No.: E35 Additional Model No.: N/A Trade Mark: N/A Report No.: WSCT-NVLAP-R&E191200025A Issued Date: Dec. 17, 2019

Issued for:

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DISPLAY & TECHNOLOGY LIMITED ROOM 1303, AUSTIN TOWER, 22 AUSTIN AVE., T.S.T., NEW TERRITORIES HONGKONG

Issued By:

World Standardization Certification & Testing Group Co., Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-26996192

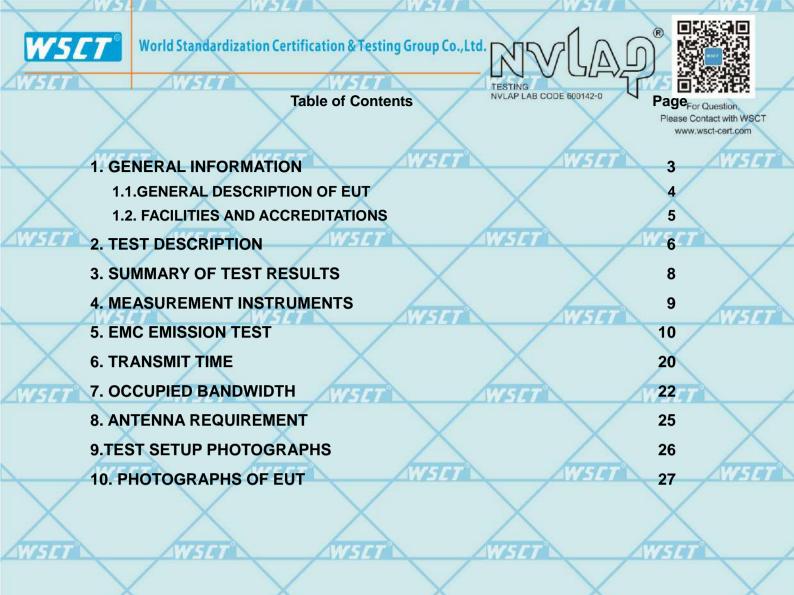
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## **1. GENERAL INFORMATION**

Product:	TPMS Sensor	
Model No.:	E35	
Trade Mark:	N/A	
Additional Model:	N/A WSET WSET WSET	
Applicant:	DISPLAY & TECHNOLOGY LIMITED	
Address:	ROOM 1303, AUSTIN TOWER, 22 AUSTIN AVE., T.S.T., NEW TERRITORIES HONGKONG	
Manufacturer:	SHENZHEN NOVACOM ELECTRONICS CO., LTD.	
Address: 7 <sup>TH</sup> FLOOR BLOCK 3 JIAAN SCIENCE & TECHNOLOGY PA LIUXIAN 1 <sup>ST</sup> ROAD 67 <sup>TH</sup> DISTRICT XINAN STREET BAO DISTRICT SHENZHEN CHINA		
Data of receipt	Dec. 10, 2019	
Date of Test:	Dec. 10, 2019 to Dec. 16, 2019	
Applicable Standards:	FCC Part 15 Subpart C &RSS-125 & RSS-123 & RSS-310 ANSI C63.10: 2013	

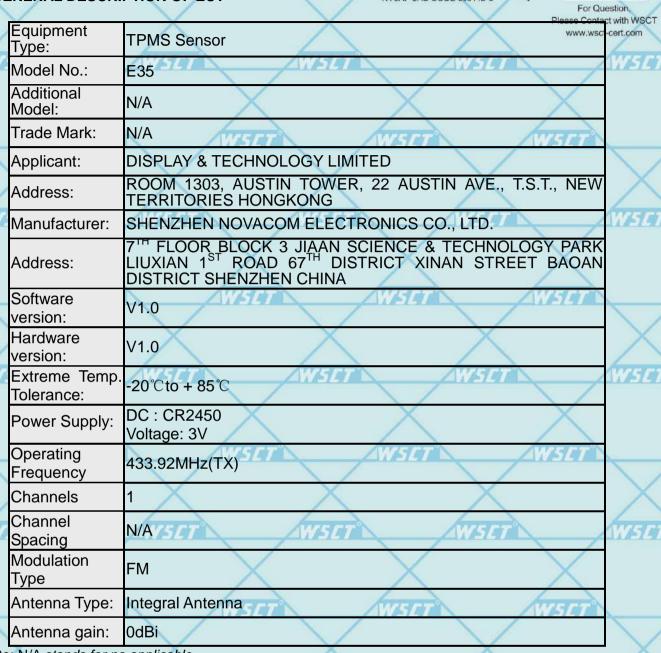
The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar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

Jim Han Dec Date: 1 20 **Tested By:** (Jim Han) tificallo, Qin Shuiguan Check By: Date: ( Qin Shuiquan) 25 Approved By: Date: Dec (Wang Fengbing) Certification d on dardiza 20 G ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996144/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wscl-cert.com Http://www.wscl-cert.com 世标检测认证股份 World Standard Report No.: WSCT-NVLAP-R&E191200025A Member of the WSCT INC

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### **1.1.GENERAL DESCRIPTION OF EUT**



TESTING

NVLAP LAB CODE 600142-0

Note: N/A stands for no applicable.

#### Models difference

N/A

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1.2. FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group Co., Ltd.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### **Registration Number: 366353**

### **1.2.1. ACCREDITATIONS**

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	<b>NVLAP</b> (The certificate registration number is NVLAP LAB CODE:600142-0)
Japan	VCCI (The certificate registration number is C-4790, R-3684, G-837)
📶 Canada	INDUSTRY CANADA // 5/7 // ////////////////////////////
	(The certificated registration number is 7700A-1)
China	CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site, http://www.wsct-cert.com

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## 2. TEST DESCRIPTION

#### 2.1 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 **k=2**, providing a level of confidence of approximately **95**%  $\circ$ 

	No.	Item	Uncertainty
2	WSET	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
5	3	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1G)	±4.7dB
	5	All emissions, radiated(>1G)	±4.7dB
	6	Temperature	±0.5°C
1	75ET	Humidity W507	±2% [7]

### 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.

test Mode	Description	1
Mode 1	The EUT was programmed to be in continuously transmitting mode.	7

### 2.3 Table of Parameters of Text Software Setting

During testing channel & power Fixed frequency prototype provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters .

2	Test software Version	WSET	N/A WSC7		WSLT
	Test program			1	

### 2.4 CONFIGURATION OF SYSTEM UNDER TEST

EUT

(EUT: TPMS Sensor)

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### 2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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

-	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	41
$\checkmark$	1	Adapter		N/A	/		
1	2			N/A	1	1	
-	Service and					TY I I W I W	

#### 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 <sup>[]</sup> Length <sup>[]</sup> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) The adapter supply by the applicant.



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	$\land$ $\land$		www.wsct-c	ert.com
	FCC CFR 47 Part1	5 , Subpart C &RSS-125 & RSS-12	23 & RSS-310	VSET
$\times$	Standard Section	Test Item	Judgment	
ISET	15.207	Conducted Emission	N/A	
	15.209 ,15.231(e)	Radiated Emission	PASS	$\checkmark$
	Section 15.231 (e)	Transmit time	PASS	$\wedge$
	Section 15.231(c)	Occupied Bandwidth	PASS	VSET <sup>®</sup>
Х	15.203	Antenna Requirement	PASS	
SET N	ote: WSCT	WSET WSET	WSET	
	<ol> <li>Pass: Test item meets the requirement.</li> <li>Fail: Test item does not meet the require</li> </ol>		$\bigvee$	$\bigvee$

3. N/A: Test case does not apply to the test object.

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**3. SUMMARY OF TEST RESULTS** 

Test procedures according to the technical standards:

4. The test result judgment is decided by the limit of test standard.

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# **4. MEASUREMENT INSTRUMENTS**

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## **5. EMC EMISSION TEST**

#### **5.1 CONDUCTED EMISSION MEASUREMENT** 5.1.1 POWER LINE CONDUCTED EMISSION Limits(Frequency Range 150KHz-30MHz)

	Conducted limit (dBµV)		
Frequency of emission (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

#### Note:

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(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. AWSET N AWSE1

	The following table is the setting of the receiver		/
6	Receiver Parameters	Setting	
	Attenuation	10 dB	
	Start Frequency	0.15 MHz	1
	Stop Frequency	30 MHz	
	IF Bandwidth	9 kHz	





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#### 5.1.2 TEST PROCEDURE

a. The EUT was placed 0.4 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 of the powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the sct-cert.com measuring instrument.

b. 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

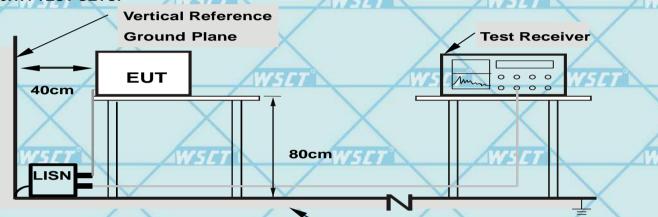
length shall not exceed 1 m.

- 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.

#### 5.1.3 DEVIATION FROM TEST STANDARD No deviation

No deviation

#### 5.1.4 TEST SETUP



Horizontal Reference Ground Plane

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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80

from other units and other metal planes

### 5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 5.1.6 TEST RESULTS

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Not applicable. Due to this product is supplied by battery.

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5.2 RADIATED EMISSION MEASUREMENT

5.2.1 Limits

According to §15.231 (e) Intentional radiators may operate at a periodic rate exceeding that specified to paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following:

		-	Field strength of spurious emission (microvolts/meter)
	40.66-40.70	1,000	100
	70-130	500	50
	130-174	500 to 1,500 <sup>1</sup>	50 to 150 <sup>1</sup>
_	174-260	1,500	150
/	260-470	1,500 to 5,000 <sup>1</sup>	150 to 500 <sup>1</sup>
	Above 470	5,000	500
1			

#### 1. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)		Field Strength (µV/m at	Field Strength (dBµV/m at
		3-meter)	3-meter)
	WSCT 30-88 WSC	100577	W5CT 40 W5C
/	88-216	150	43.5
	216-960	200	46
	Above 960	500 MISE	54

#### Notes:

1:The limit for radiated test was performed according to FCC PART 15C. 2:The tighter limit applies at the band edges.

3:Emission level (dBuV/m)=20log Emission level (uV/m).

#### Receiver Setup: ANSI C63.10-2013 6.10.5.2

Frequency	Detector	RBW	VBW	Remark		
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
150kHz-	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
30MHz	T	AWS	ET N	WSE		
30MHz-1GHz	Quasi-peak	120kHz	1MHz	Quasi-peak Value		
	Peak	1MHz	3MHz	Peak Value		
ADOVE TOHZ	Peak	1MHz	3MHz	Average Value		
	9kHz- 150kHz 150kHz- 30MHz	9kHz- 150kHz Quasi-peak 150kHz- Quasi-peak 30MHz 30MHz-1GHz Quasi-peak Above 1GHz	9kHz- 150kHzQuasi-peak200Hz150kHz-Quasi-peak9kHz30MHz200Hz9kHz30MHz-1GHzQuasi-peak120kHzAbove 1GHzPeak1MHz	9kHz- 150kHzQuasi-peak200Hz1kHz150kHz-Quasi-peak9kHz30kHz30MHzQuasi-peak120kHz1MHz30MHz-1GHzQuasi-peak120kHz1MHzAbove 1GHzPeak1MHz3MHz		



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## 5.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz, www.ef-cert.com frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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.

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

5.2.3 DEVIATION FROM TEST STANDARD No deviation

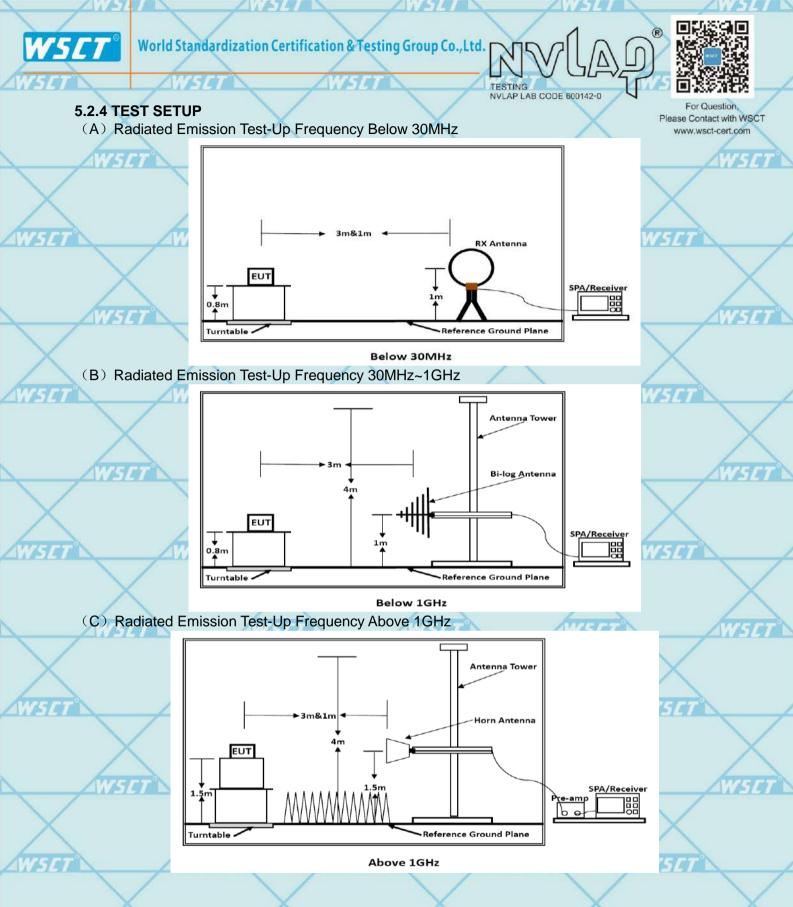
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#### **5.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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5.2.6 (Between 30M - 1000 MHz)



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NVLAP LAB CODE 600142-0

Temperature20 °C			°C   Relative Humidity			60%	$\sim$	Please Contact with V
Pressure 1010 h			Pa	Test Mode			e 1	www.wsct-cert.co
F	undamental:		1517	Aurs	77		WSFT	- Aug
1	Freq.	H/V	Reading	Correction	Result	Limits	Margin	Remark
	(MHz)	$\checkmark$		Factor				$\sim$
	(		(dBµV)	(dB)	(dBµV/	(dBµV	(dB)	$\wedge$
2	6		6		m) 🚄	/m)		
	433.92	SZ/H	69.38	-0.43	68.95	92.20	-23.25	Peak
	433.92	Н	<u></u>	-	63.47	72.20	-8.73	AVG
	433.92	V	61.08	-0.43	60.65	92.20	-31.55	Peak
	433.92	V	-	-	55.17	72.20	-17.03	AVG
	Spurious	A.	ISIT N	1000	TT		WISTT	177
1	869.13	Н	35.61	5.07	40.68	74.00	-33.32	Peak
	869.13	И	- 0	$\sim$	35.20	54.00	-18.88	AVG
	872.18	V	37.44	5.13	42.57	74.00	-31.43	Peak
D.	872.18	V	- /-		37.09	54.00	-16.91 🌙	AVG
					1 90			

Remark: AVG = peak + duty cycle factor(-5.48)

#### Notes:

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1. Measuring frequencies from 9KHz to the 1000MHz.

2. Radiated emissions measured in frequency range from 9KHz to 1000MHz were made with an instrument using Peak detector mode.

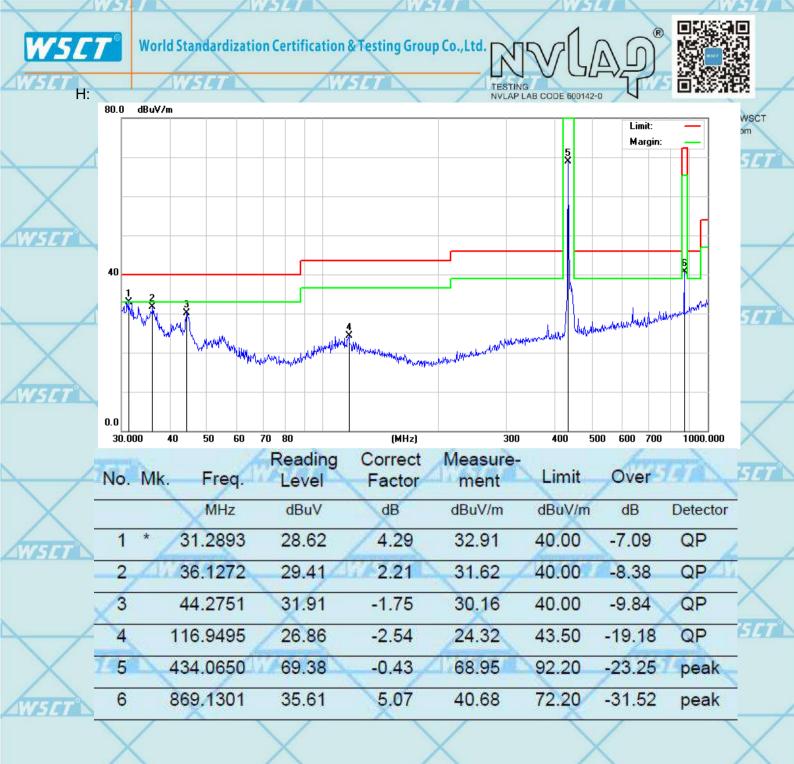
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of

emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

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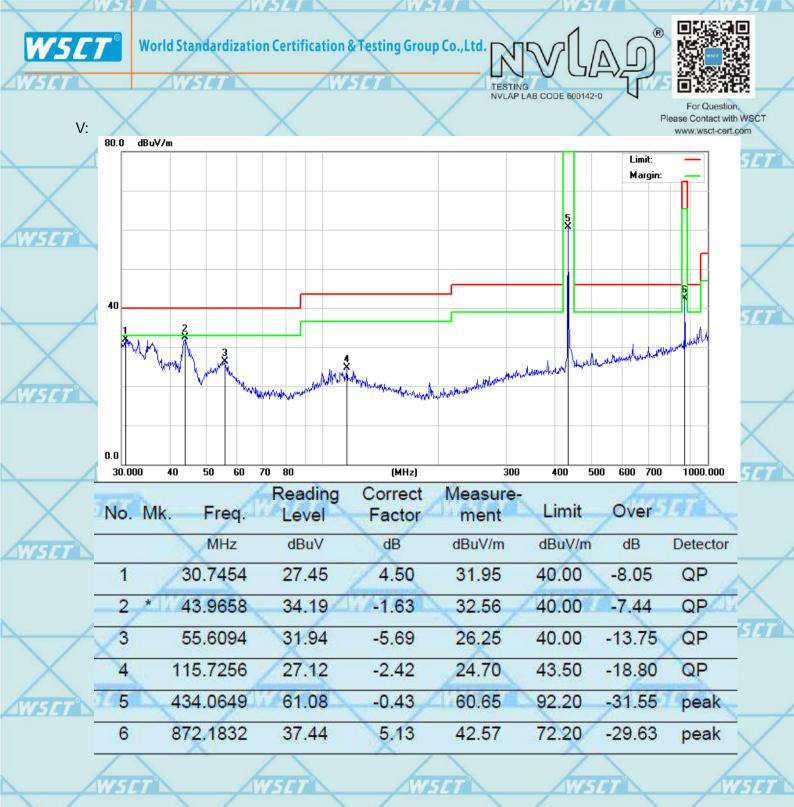
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5.2.7 (F	rom 1GHz	to 26GHz	)

7 (From 1GHz to	26GHz)		NVLAP LAB CODE 600142	
Temperature	20 °C	$\sim$	Relative Humidity	48% For Question Please Contact with WSCT
Pressure	1010 hPa	$\sim$	Test Mode	Mode 1 TX www.wsct-cert.com

TESTING

		1				1	1			1
	Freq.	H/V	Reading	Correction	Res		Lin		Margi	n(dB)
	(MHz)	X	(dBµV)	Factor(dB/m)	) (dBµV/m) 🚽		(dBµV/m)			
		1	PK		PK	AV	PK	AV	PK	AV
_	1301.76	5 H	49.58	-7.96	41.62	36.14	74	54	32.38	17.86
	1735.68	Н	53.42	-8.72	44.69	39.21	74	54	29.31	14.79
	2169.60	Н	54.90	-2.41	52.50	47.02	74	54	21.50	6.98
1	2603.52	Н	48.98	-2.03	46.95	41.47	74	54	27.05	12.53
1	3037.44	Н	51.28	-7.05	44.22	38.74	74	54	29.78	15.26
4	3471.36	Ŧ	50.17	-1.77	48.39	42.91	74	54	25.61	11.09
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	4339.20 🍃	Y	52.99	1.56	54.55	49.07	74	54	19.45	4.93

	Freq.	H/V	Reading	Correction	Res	sult	L / Lin	nits	Margi	n(dB)
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			PK		PK	AV	PK	AV	PK	AV
/	1301.76	Н	51.15	-7.33	43.82	38.34	74	54	30.18	15.66
7	1735.68	Н	51.03	-2.33	48.70	43.22	74	54	25.30	10.78
2	2169.60	н	53.26	-2.00	51.25	45.77	74	54	22.75	8.23
	2603.52	Я	49.48	-6.53	42.95	37.47	74	54	31.05	16.53
	3037.44	×н	54.81	-3.58	51.23	45.75	74	54	22.77	8.25
	3471.36	H	50.79	-0.19	50.60	45.12	74	54	23.40	8.88
	3905.28	5.HT	46.47	-6.18	40.29	34.81	74	54	33.71	19.19
5	4339.20	Н	49.66	1.75	51.41	45.93	74	54	22.59	8.07

Note :

- 1. Result = Reading + Corrected Factor
- 2. Average Result = Peak Result + Duty Factor (-5.48)
- 3. Corrected Factor = Antenna Factor + Cable Loss Amplifier Gain (if any)
- 4. Margin =Limit Result
- 5. Above 1Ghz : Peak measurements are compared to the average limit as peak measurements are below the average limit, they also comply with the peak limit.



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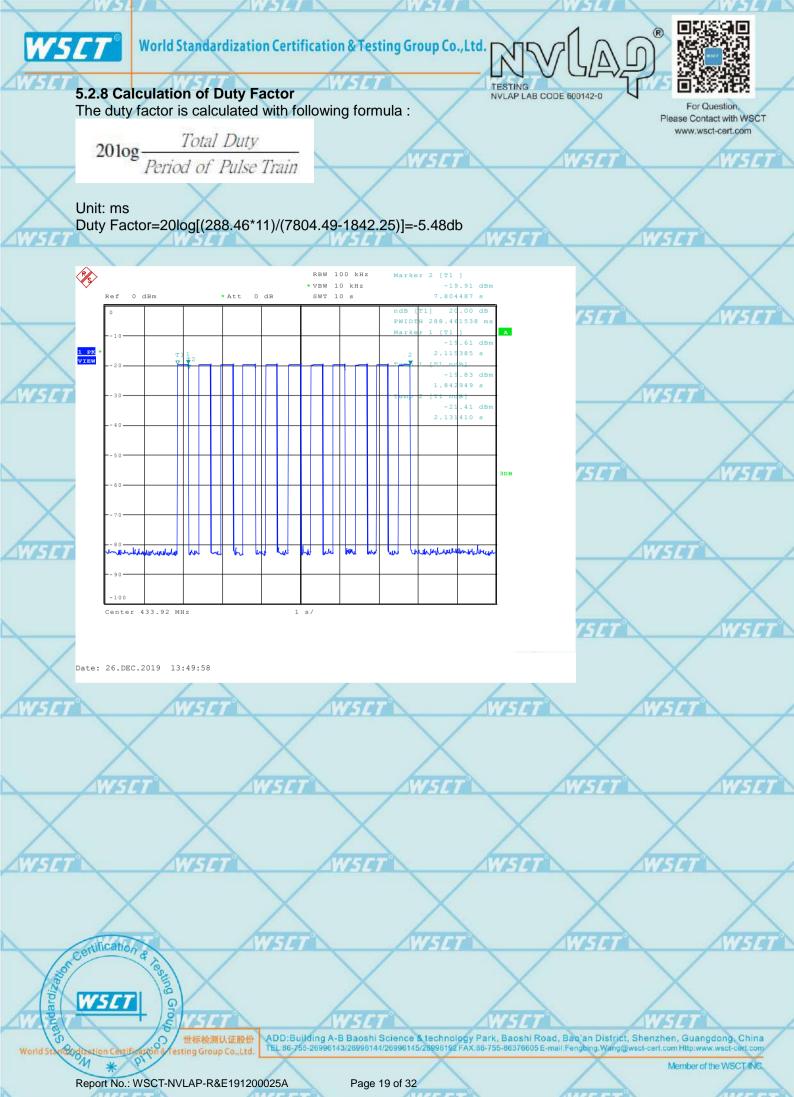
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# 6. TRANSMIT TIME





For Question, Please Contact with WSCT www.wsct-cert.com

### 6.1 AUTOMATICALLY LIMITING OPERATION Limits

Regulation 15.231 (e) In addition, devices operated under the provisions of this paragraph shall be

provided with a means for automatically limiting operation so that the duration of each

transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

#### 6.2 TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

a) Set span to 0 Hz.

- b) Set RBW = 100kHz.
- c) Set VBW ≥ 3 x RBW.
- d) Sweep time = 29S.
- e) Detector = Peak.

### 6.3 DEVIATION FROM TEST STANDARD

No deviation

#### 6.4 TEST SETUP



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#### 6.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it). This operating condition was tested and used to collect the included data.

### 6.6 TEST RESULTS

	Ton/Toff (s)	Ton/Toff limits(s)	Result
1	0.325	Ton<1	Pass
	21.33	T <sub>off</sub> >30Ton	Pass

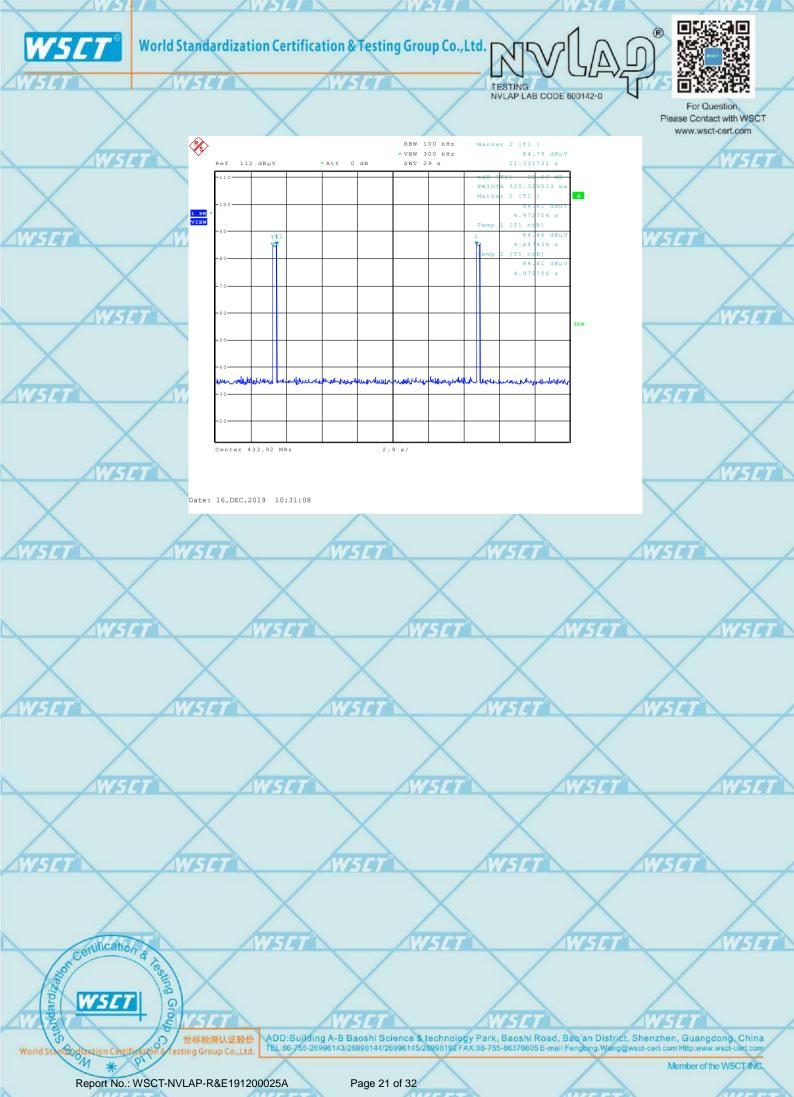
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LIDIED BANDWIDTH





	Test Specification	For Quest Please Contact v	with WSCT
4	Test Requirement:	FCC Part 15 Subpart C &RSS-125 & RSS-123 & RSS-310	rt.com
	Test Method:	ANSI C63.10: 2013	VSET
WSET	LIMITS OF BAND	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for device operating above 70MHz and below 900MHz.	
WSET	TEST PROCEDURE	<ul> <li>The EUT was placed on a turn table was 0.8meter above ground.</li> <li>The signal was coupled to the specturm analyzer through an antenna.</li> <li>Set SPA RBW:10KHz,VBW:30KHz sweep time :auto Set SPA trace max hold,then view.</li> </ul>	$\wedge$
	Test setup:	EUT	VSET
$\Delta$	Test Mode:	Transmitting mode with modulation	
WSET	Test results:	PASS	



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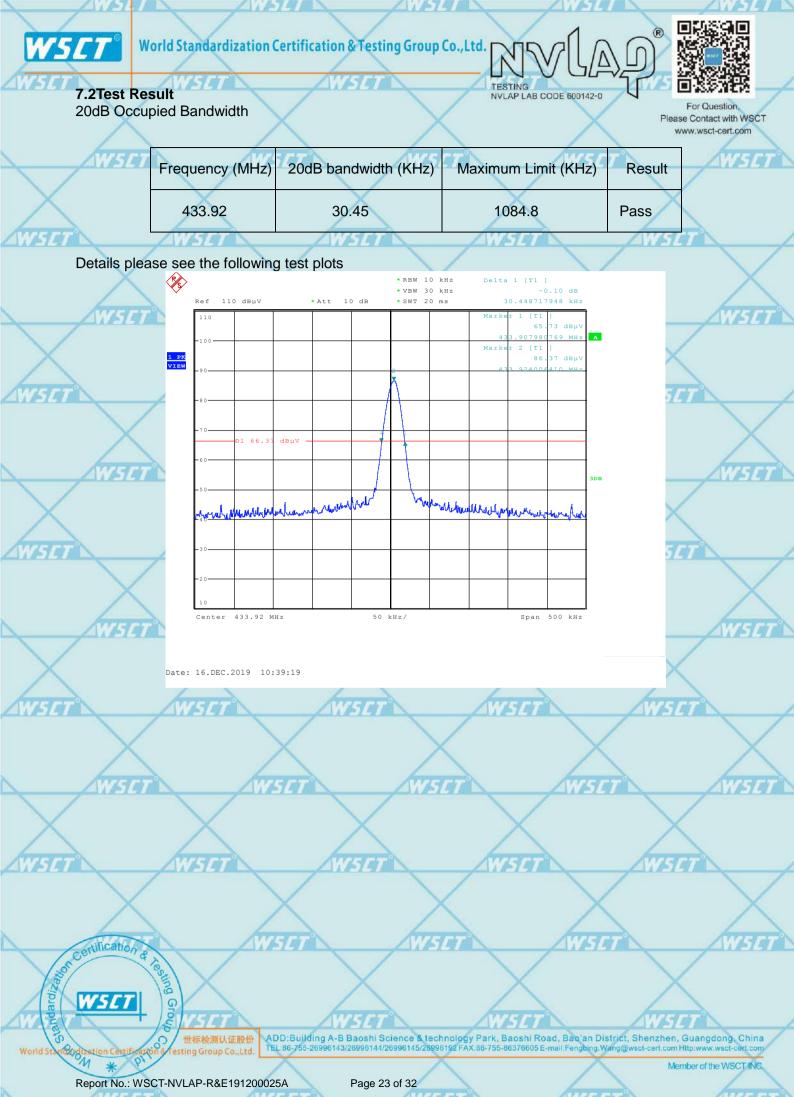
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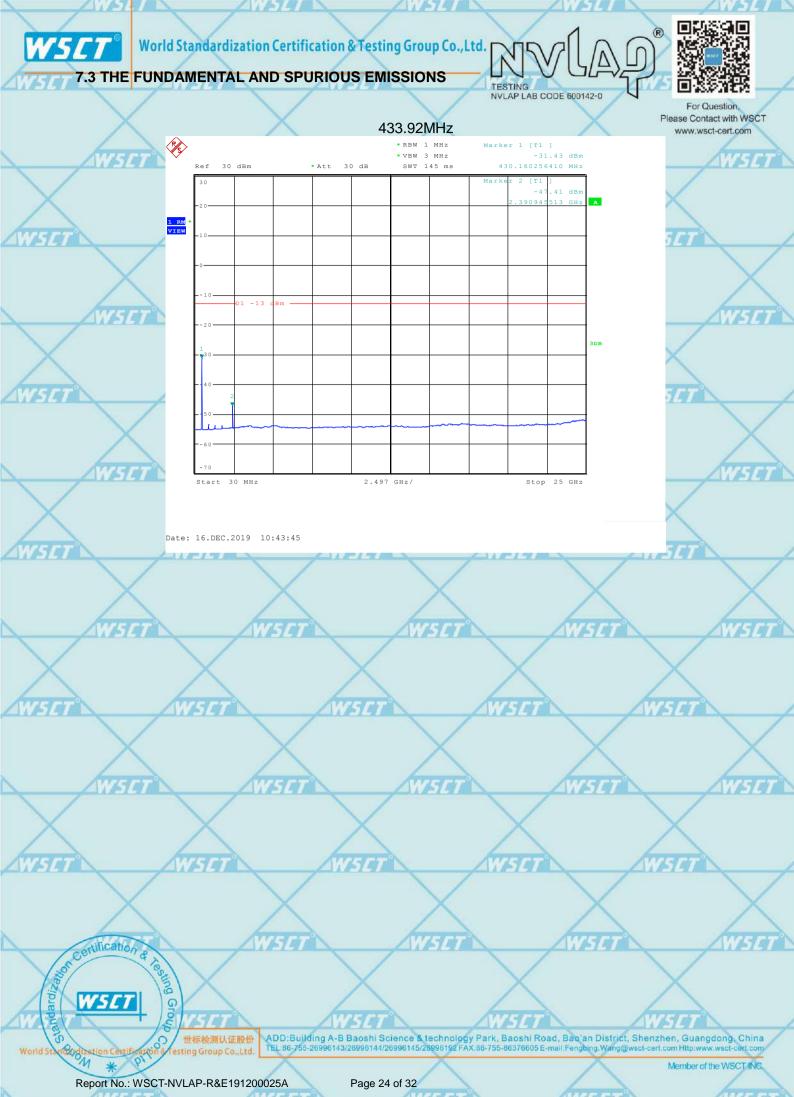
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## 8. ANTENNA REQUIREMENT

#### 8.1 Antenna requirement

The EUT's antenna is met the requirement of FCC part 15C section 15.203.

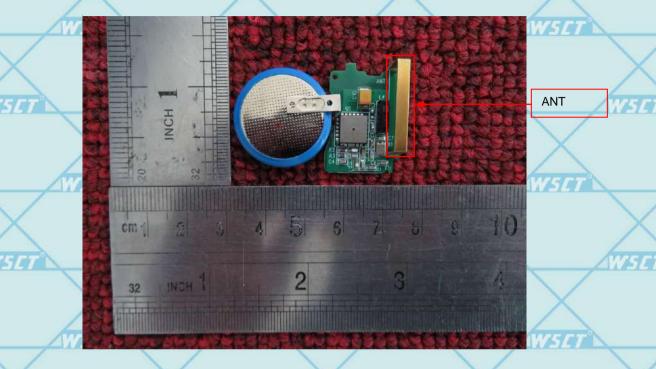
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### 8.2 Result

The antenna used in this product is an integrated antenna, The antenna's gain is 0dBi and meets the requirement.

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TESTING NVLAP LAB CODE 600142-0



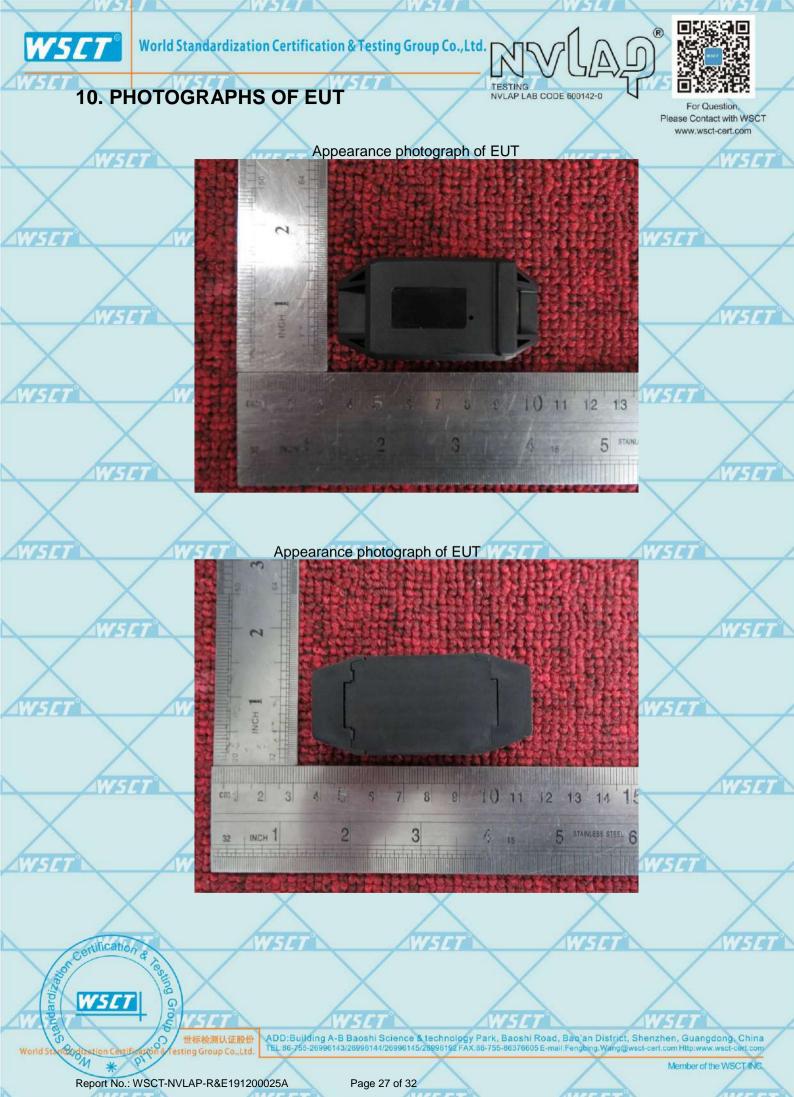


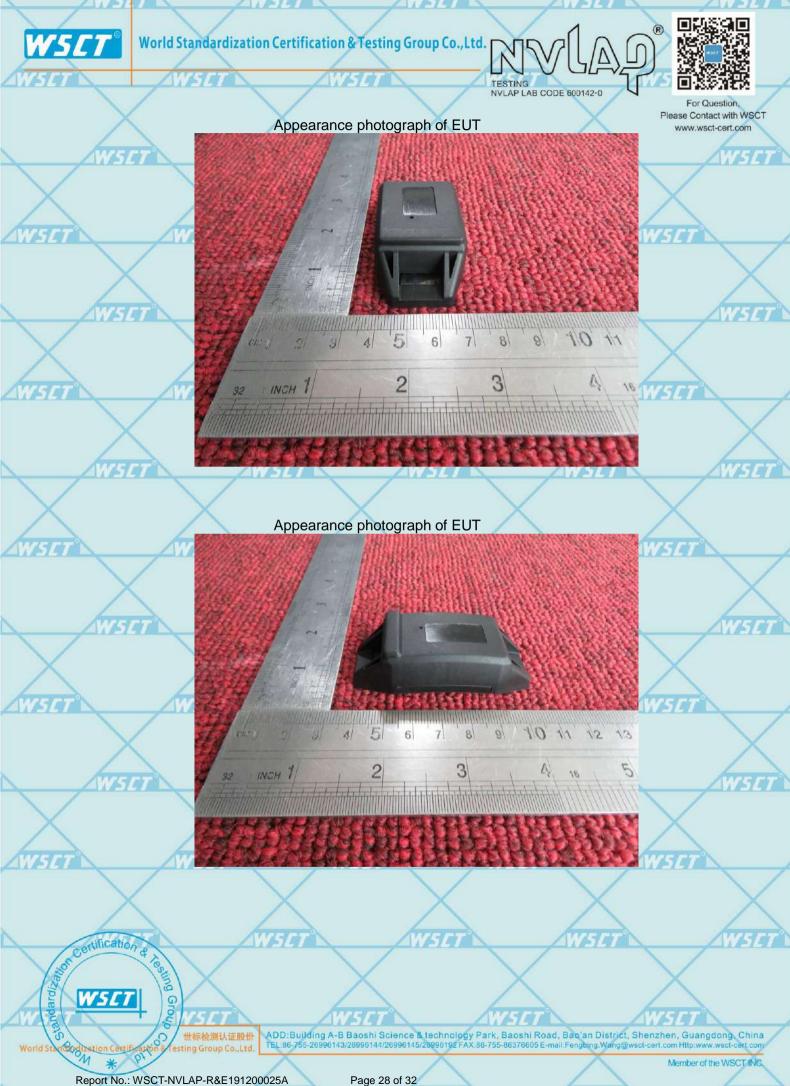


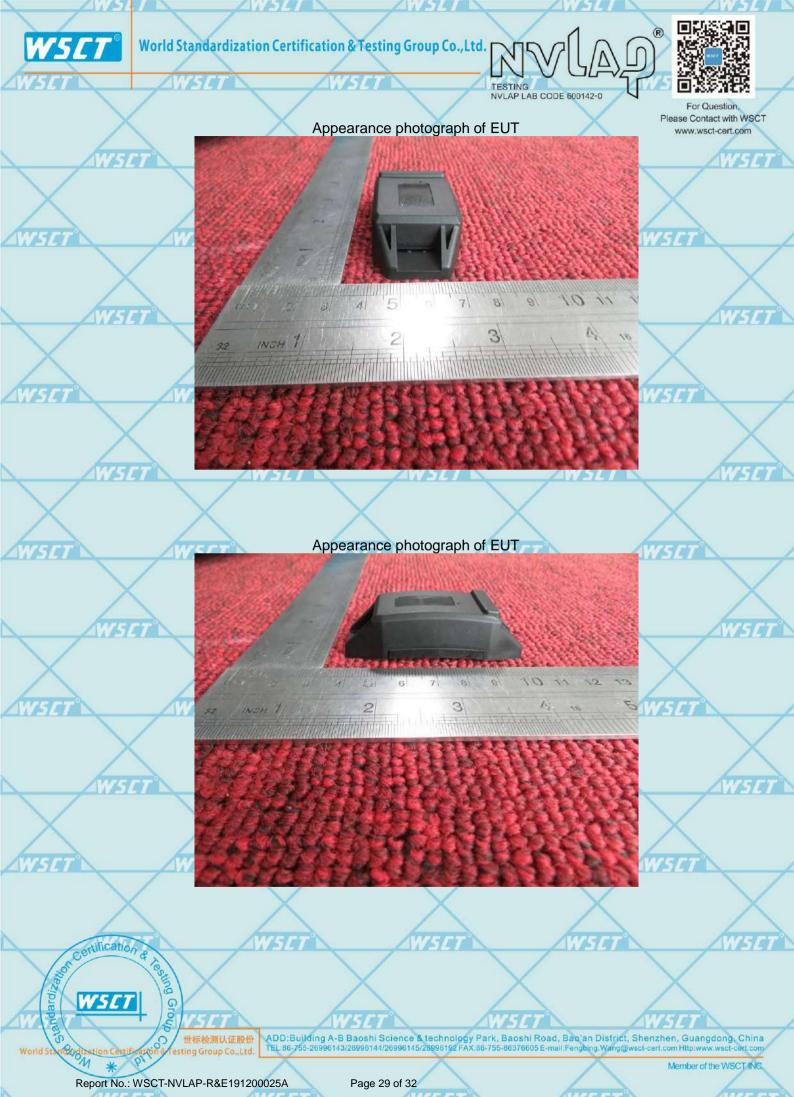
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## 9.TEST SETUP PHOTOGRAPHS

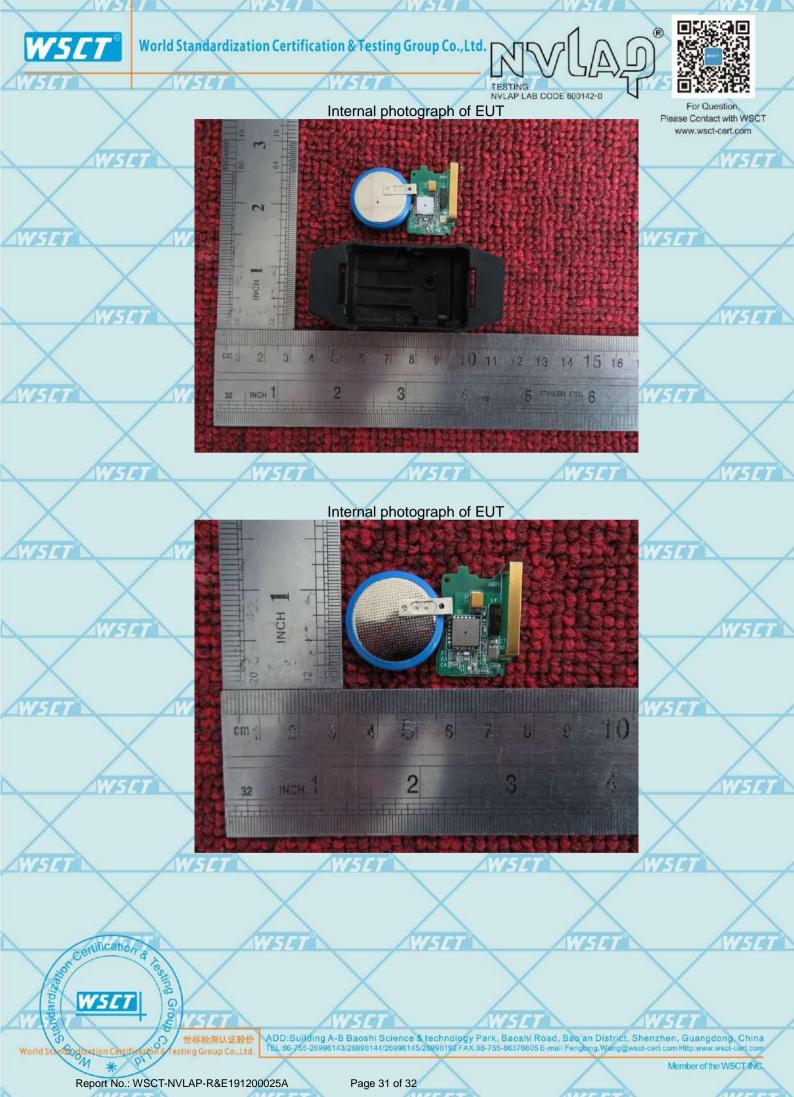














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