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TEST REPORT

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FCC ID: 2AJMN-P10003L WSLT WSC7 **Product: Tablet** Model No.: P10003L Trade Mark: itel Report No.: WSCT-ANAB-R&E240900047A-RF Issued Date: 16 October 2024

Issued for:

WSCT[®]

WS FITEL MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

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World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. Building A-B.Baoli' an Industrial Park.No.58 and 60, Tangtou Avenue, Shiyan Street, Bao' an District, Shenzhen City, Guangdong Province, China

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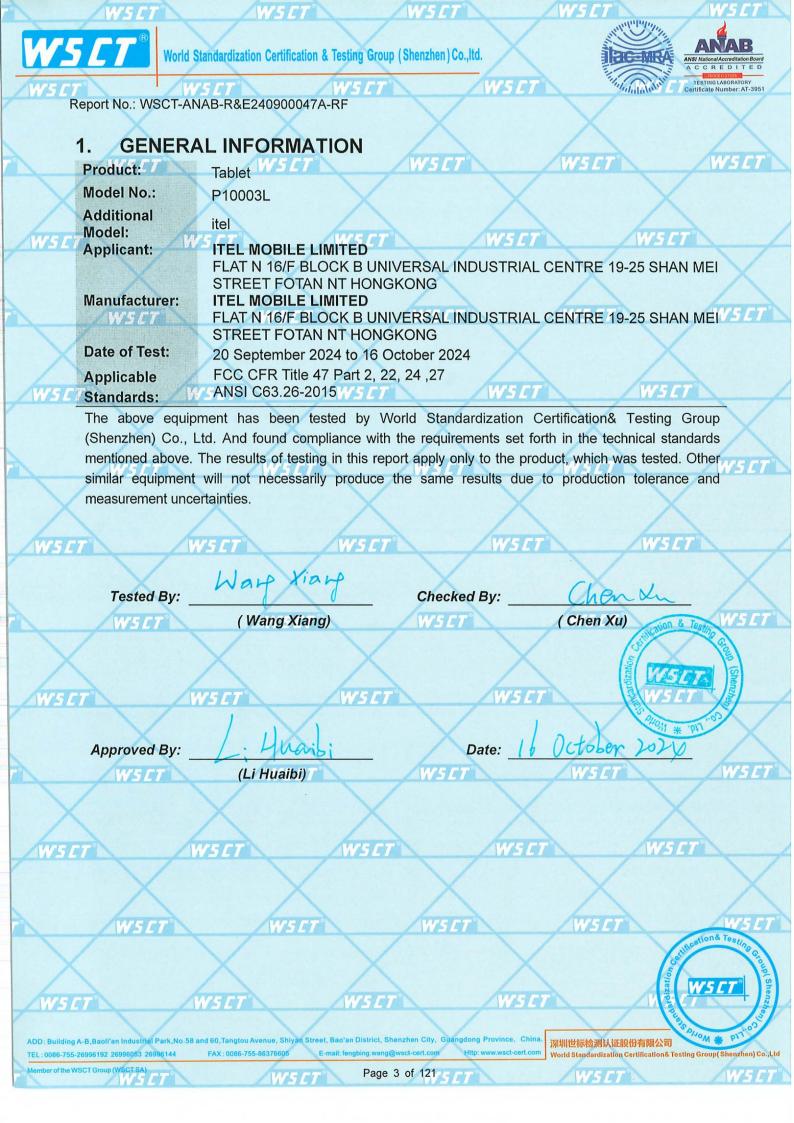
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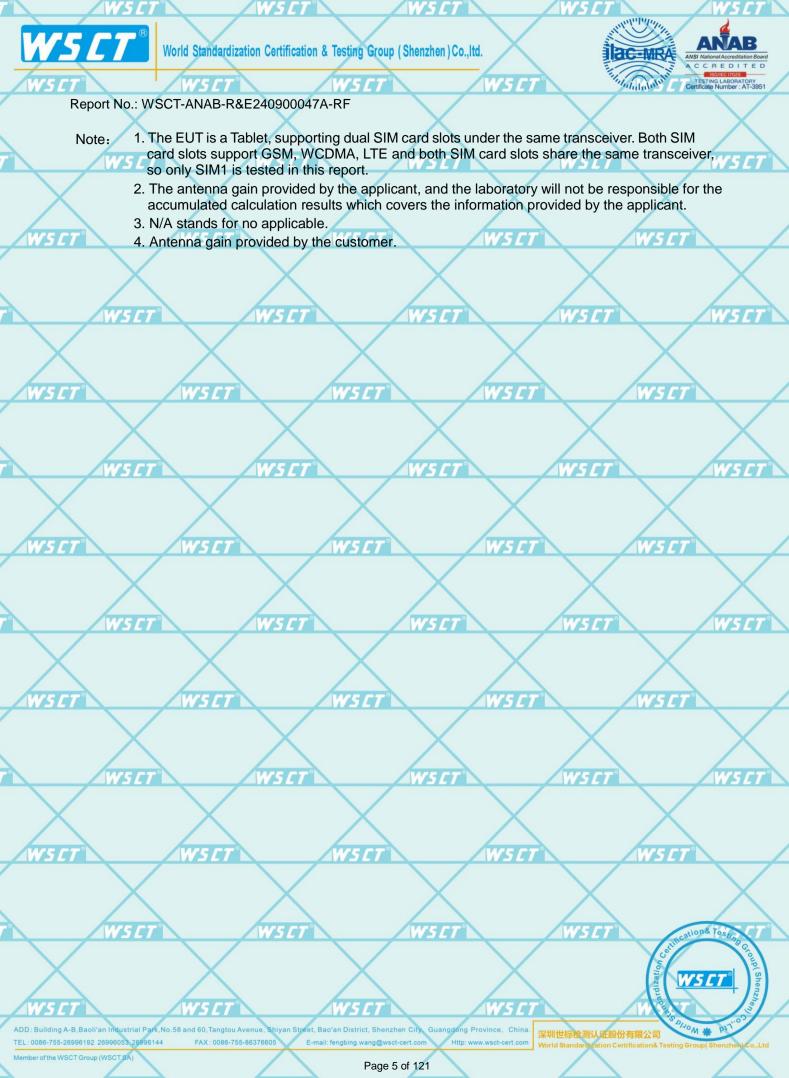
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GENERAL DESCRIPTION OF EUT 2. Tablet **Equipment Type:** P10003L Model itel **Trade Mark** WSET **GSM/GPRS/EGPRS 850/1900** WCDMA/HSDPA/HSUPA Band 2/4/5 **Operating Bands** FDD LTE Band 2/4/5/7 TDD LTE Band 38/41 **FPC** Antenna Antenna Type: GSM 850,/WCDMA B5,/LTE B5:0.67dbi PCS 1900/WCDMA B2/LTE B2: 1.17dbi Antenna gain: WCDMA B4/LTE B4: 1.05dbi WSCI LTE B7/B38/B41:1.36dbi GSM 850,/WCDMA B5,/LTE B5:7.00W(38.45dBm) PCS 1900/WCDMA B2/LTE B2:2.00W(33.01dBm) **Radiated Power** WCDMA B4/LTE B4: 1.00W(30.00dBm) (EIRP/ERP) Limit LTE B7/B38/B41: 2.00W(33.01dBm) GSM850: 824-849MHz (TX), 869-894MHz (RX) PCS1900: 1850-1910MHz (TX), 1930-1990MHz (RX) WCDMA Band2: 1850-1910MHz (TX), 1930-1990MHz (RX); WCDMA Band4: 1710-1755MHz (TX), 2110-2155MHz (RX); 15 E 757 WCDMA Band5: 824-849MHz (TX), 869-894MHz (RX); Operation LTE Band2: 1850-1910MHz (TX), 1930-1990MHz (RX); Frequency Range: LTE Band4: 1710-1755MHz (TX), 2110-2155MHz (RX); LTE Band5: 824-849MHz (TX), 869-894MHz (RX); LTE Band7: 2500-2570MHz (TX), 2620-2690MHz (RX); LTE Band38: 2570-2620MHz(TX), 2570-2620MHz(RX); LTE Band41: 2496-2690 MHz(TX), 2496-2690 MHz(RX); **GSM/GPRS: GMSK** EGPRS: 8PSK WCDMA: QPSK Modulation Type rs ci IS CI HSDPA/HSUPA: QPSK /16QAM LTE: QPSK/16QAM Adapter1: U100ISB Input: 100-240V~50/60Hz 0.3A Output: 5.0V-2.0A WSE Rechargeable Li-ion Polymer Battery: P10003L **Operating Voltage:** Rated Voltage:3.8V Rated Capacity:7000mAh/26.60Wh Typical Capacity:7030mAh/26.71Wh WSCT SCT 75 C Limited Charge Voltage: 4.35V See Table 2.1 Max power: Remark: N/A. WSCI WSI tion& Tes

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Table 2.1 Maximum power in the operating frequency band.

l able 2.	<u>a wiaximum poy</u>	ver in the	operating r	requency band.		
7 W 5	Operation Band (s)	Power Class	Modulation Type	Maximum conducted output power (dBm)	ERP/EIRP (dBm)	WSET
	GSM 850	Class 4	GMSK	33.10	31.62	$\langle \rangle$
WSET	EGPRS 850	Class 4	8PSK	25.81 <u>/5 C7</u>	24.33	СТ
	GSM 1900	Class 1	GMSK	29.84	31.01	
	EGPRS 1900	Class 1	8PSK	25.98	27.15	
W75	WCDMA Band 2	Class 3	QPSK	/5<i>CT</i> 22.43	23.60	WSLT
	WCDMA Band 4	Class 3	QPSK	22.70	23.75	
	WCDMA Band 5	Class 3	QPSK	22.94	21.46	\geq
WSET	E-UTRA Band 2	Class 3	QPSK	23.59 5 67	24.76	CT°
	E-UTRA Band 2	Class 3	16QAM	23.54	24.71	\times
	E-UTRA Band 4	Class 3	QPSK	23.46	24.51	WSET
	E-UTRA Band 4	Class 3	16QAM	23.86	24.91	
	E-UTRA Band 5	Class 3	QPSK	23.45	24.12	X
WSET	E-UTRA Band 5	Class 3	16QAM	23.88	24.55	CT
	E-UTRA Band 7	Class 3	QPSK	22.71	24.07	
	E-UTRA Band 7	Class 3	16QAM	22.82	24.18	
ws	E-UTRA Band 38	Class 3	QPSK	75 [7 21.66	23.02	WSET
	E-UTRA Band 38	Class 3	16QAM	21.96	23.32	
\frown	E-UTRA Band 41	Class 3	QPSK	21.53	22.89	
WSET	E-UTRA Band 41	Class 3	16QAM	21.58 <i>5 CT</i>	22.94	[7]
	/					

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3. FACILITIES AND ACCREDITATIONS

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3.1.Facilities

All measurement facilities used to collect the measurement data are located at Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street,

Bao'an District, Shenzhen City, Guangdong Province, China of the World WS CT Standardization Certification & Testing Group (Shenzhen) 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."

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3.2. ACCREDITATIONS

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951







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3.3. EUT System Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet *s* c the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

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Fig. 3.2-1 Configuration of EUT System

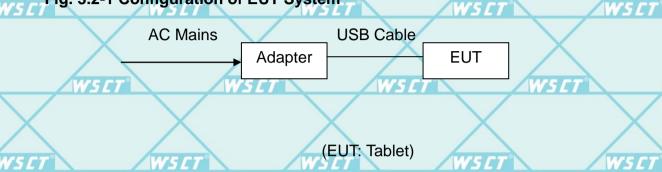


Table 3.2-1 Equipment Used in EUT System

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	Item	Equipment	Model No.	ID or Specification	Note	51
	1	Adapter	U100ISB		Accessories	
Cri		WEFT	WEFT		WCCCT"	

***Note: All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.

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WSET	WSET	$\langle \rangle$		WSET	WSET
WSET	WSLT	WSCT	WSET	WSE	
WSET	WSET	$\langle \rangle$		WSET	Lione Testing g
WSET	WSET	WSET	WSET	5	VSCT Shenzheg
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3.4. Description Of Test Channels And Test Modes

<u> </u>	/ W5L	WSLTWS		5 <i>L1</i> / V	VSET
X	Test channels: Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)	
WS CT	WSET	Low Channel	W1287	824.2.7	
	GSM/GPRS/EGPRS 850	Middle Channel	190	836.6	\checkmark
	\mathbf{X}	High Channel	251	848.8	\mathbf{X}
		Low Channel	512	1850.2	VS ET
	GSM/GPRS/EGPRS 1900	Middle Channel	661	1880.0	
		High Channel	810	1909.8	
		Low Channel	9262	1852.4	
WSET	WCDMA Band 2	Middle Channel	94007	1880.0	
		High Channel	9538	1907.6	
	X	Low Channel	1312	1712.4	X
	WCDMA Band 4	Middle Channel	1412	1732.6	
	/WSLT	High Channel	1513	1752.6	V5CT °
		Low Channel	4132	826.4	
	WCDMA Band 5	Middle Channel	4182	836.4	
		High Channel	4233	846.6	
ZWSET		W5L1	WSLT	/WSLT	

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		LTE Ba	ind2		
	Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	
WSCT	WS	1.4	18607	1850.7	
		3	18615	1851.5	
X		5	18625	1852.5	
	Low Range	10	18650	1855	1
WSCT	WSET	15	18675	1857.5	
		20	18700	1860	
	Mid Range	1.4/3/5/10/15/20	18900	1880	
WS CT	WS	1.4	19193	1909.3	
		3	19185	1908.5	
X	High Bongo	5	19175	1907.5	
	High Range	10	19150	1905	4
WSLT	WS CT	15	19125	1902.5	
\sim		20	19100	1900	

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		LTE Ba	ind4		
wscr	Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	WSET
	\sim	1.4	19957	1710.7	\bigvee
\wedge	\land	3	19965	1711.5	\land
WSET	Low Range	wsrt	19975	1712.5	WSET
	Low Range	10	20000	1715	
X		15	20025	1717.5	X
		20	20050	1720	
WSET	Mid Range	1.4/3/5/10/15/20	20175	1732.5	WSET
	\mathbf{X}	1.4	20393	1754.3	\sim
\wedge	\land	3	20385	1753.5	\sim
WSET	High Range	w ⁵ sct	20375	1752.5	WSET
	riigh Kange	10	20350	1750	
X		15	20325	1747.5	X
		20	20300	1745	
WSET			WSLI	WSLI	WS CT
X		LTE Ba			\mathbf{X}
	Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	
W5CT	WSET	1.4	20407 105	824.7	WSCT
	Low Range	3	20415	825.5	
\mathbf{X}		5	20425	826.5	X
WSET [®]		10	20450	829	WSCT
	Mid Range	1.4/3/5/10	20525	836.5	
X	X	1.4	20643	848.3	X
	High Range		20635	847.5	$ \land $
W5CT°	WSET	10	20625 115	846.5	WSET
		10	20600	844	
			\wedge	\wedge	\wedge
WSLT	WS	67	WSET	WSET	WS CT
				/	
X	X	X	X		X
			hur		
WSET [®]	WSET	WSET	WS		WSCT
X			X	\sim	X
			\land		
WS CT	W5	CT°	WSET	WSET	incation& Testing 7
	\bigvee			/	Senterion& Testing CT
	X	X	X		WSCT S
WSET	WSET	WSET	ws		nizhog
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TEL:0086-755-26996192 26996053 26996144	FAX:0086-755-86376605	E-mail: fengbing.wang@wsct-ce		·木利1巴竹竹鱼/则1人和EBQ17	有限公司 tification& Testing Group(Shenzhen) Co.,Ltd
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· · · ×			X	X				
		LTE Ba	and 7					
WSET	Test Channel	BW(MHz)	UL Channel	Frequency(MHz)				
	\sim	5	20775	2502.5				
\mathbf{X}		10	20800	2505				
WSET	Low Range	15	20825	2507.5	WSC			
		20	20850	2510				
X	Mid Range	5/10/15/20	21100	2535				
		5	21425	2567.5				
wscr	W5	10	21400	2565 LT				
	High Range	15	21375	2562.5				
	\land	20	21350	2560				
WSET	WSFT	WSFT	ws		W5C			
	LTE Band 38							
X	Test Channel	BW(MHz)	UL Channel	Frequency(MHz)				
		5	37775	2572.5	<u>.</u>			
WS CT	Low Range	10	37800	2575				
	Low Range	15	37825	2577.5				
	\land	20	37850	2580				
WSET	Mid Range	5/10/15/20	38000 WS	2595	WSE			
		5	38225	2617.5				
X	High Range	10	38200	2615				
		15	38175	2612.5				
WSET [®]	WS	20	38150	2610				
	LTE Band 41							
WSET	Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	WSE			
		5	39675	2498.5				

10 39700 2501 Low Range 15 39725 2503.5 2506 20 39750 5/10/15/20 40620 2593 Mid Range 5 41565 2687.5 41540 2685 10 High Range 15 41515 2682.5 20 41490 2680

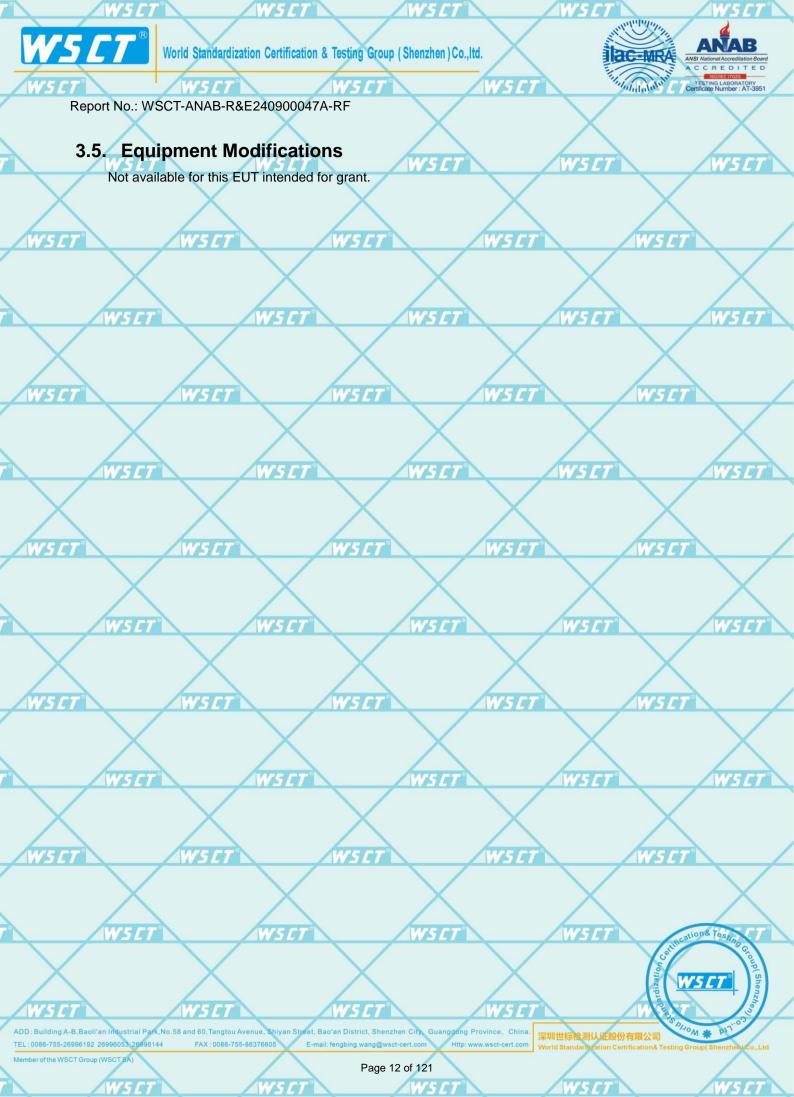
Note 1: BPSK&QPSK&16QAM modulation has been measured; Note 2: The worst condition was recorded in the test report if no other modes test data.

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4. SUMMARY OF TEST REQUIREMENTS AND RESULTS

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$\overline{}$	No.	Description	FCC Part No.	Test Verdict	Remark	
\wedge	1	Conducted RF Output Power	2.1046	Pass		
V5 CT			WSLT	r ass	VSCT	
			2.1046			
	2	Effective (Isotropic) Radiated Power	22.913(a)	Pass		X
			24.232(c) 27.50			
	/W/5	cr° wscr° w	27.50	WS CT		NS C
X	3	Peak to Average Radio	22.913(d)	Pass	X	
$ \land $			24.232(d)		$\langle \rangle$	
V5 CT			27.50(d)			
			2.1049		VSLI	
	4	Occupied Bandwidth	22.917(b)	Pass		\sim
	/	Occupied Bandwidth	24.238(b)	1433		
			27.53			
	_W5	<i>CT</i> ° \W 5 <i>CT</i> ° \ W	5 <i>CT</i> 2.1055	WSCT [®]		W5 [
	5	Fragman av Stability	22.355	Deee		
X	5	Frequency Stability	24.235	Pass	X	
$\langle \ \rangle$			27.54		$\langle \rangle$	
VS CT		WSET WSET	2.1051		VS CT	
			22.917			
	6	Spurious Emission at Antenna Terminals	24.238	Pass		\mathbf{N}
			27.53			
			2.1051			
	W 5 7	<i>CT</i> ° W 5 <i>CT</i> ° W	5 27 22.917	W5 CT°		w5 [
	7	Band Edge	24.238	Pass	<u> </u>	
X			27.53		\mathbf{X}	
$^{\prime}$			2.1053			
V5 CT		WSET WSET	22.917 57		VSET	
	8	Field Strength of Spurious Radiation		Pass		
			24.238	\sim		\sim
			27.53			
	ws	ET WSET W	IS ET	WSET	/	w 5 L
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\wedge			X		\wedge	
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5. MEASUREMENT INSTRUMENTS

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		MEET	WILLET			hur	
\checkmark	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
/	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
ws	CT LISN W	SCT AFJ	W5 L\$16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	/
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
-	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	<i>ΓΤ</i>
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
_	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	
ws	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
	Pre-Amplifier	CDSI	PAP-1G18-38	×	11/05/2023	11/04/2024	K
	Loop Antenna	R&S	HFH2-Z2	100296	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
	9*6*6 Anechoic	Х -	Χ-	-X	11/05/2023	11/04/2024	
w5	Horn Antenna	COMPLIANCE SENGINEERING	CE18000	WSET	11/05/2023	11/04/2024	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	/
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
_	Power meter	Anritsu 27	MA2491A	27 32263	11/05/2023	11/04/2024	<u>L</u> T
1	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
W5	Turn Table	SET CCS	N/A	N/A SET	N.C.R	N.C.R	_
	Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R	\langle
	RF cable	Murata	MXHQ87WA3000	-	11/05/2023	11/04/2024	
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	LI
2	Wideband Radio Communication Tester	R&S	CMW 500	103974	11/05/2023	11/04/2024	
W5	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
	H & T Chamber	Guangzhou gongwen	GDJS-500-40	0329	11/05/2023	11/04/2024	$\langle \rangle$
	UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY60192341	11/05/2023	11/04/2024	57
$\overline{)}$	Anechoic chamber	SAEMC	966		11/05/2023	11/04/2024	Group
1	Spectrum Analyzer	KEYSIGHT	N9010B	MY60241089	11/05/2023	11/04/2024	p(Shen
ws		SET	WSET	WSET			zhen

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6. Transmitter Radiated Power (EIRP/ERP)

Test limit:

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 27.50(j) & 27.50(k) & 90.635(b) & 90.542(a)

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 mill watts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards. For mobile and portable stations using time division depleting (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(d) (4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

FCC section 27.50(j) (3), for mobile, and portable (hand-held) stations operating in the 3700-3980 MHz band are limited to 1 watt EIRP.

FCC section 27.50(k) (3), Mobile devices are limited to 1Watt (30 dBm) EIRP in the 3450-3550 MHz band.

Test procedure: 54

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

Conducted Output Power Value (dBm) = Measured Value (dBm) + Path Loss (dB)

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm; Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm; Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

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Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = PMeas + GT - LC

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW; GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

dBd (ERP)=dBi (EIRP) -2.15 dB

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

The relevant equation for determining the ERP/EIRP from the radiated RF output power is: ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

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ERP/EIRP = effective or equivalent radiated power, in dBm; SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

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Test Result

GS	GSM Mode Test Data:												
	Мос	le	Frequency (MHz)	0	onducted utput AV wer (dBm)	Antenna Gain (dBi)	Ga	enna ain Bd)	ERP (dBm)	Lin (dBı		Verdict	ws c
		\sim	824.2		32.63	0.67	-1	.48	31.15	38.4		Pass	
\sim	GSM	350 /	836.6		32.33	0.67	-1	.48	30.85	38.4	45 🌙	Pass	
			848.8		33.10	0.67	1	.48	31.62	38.4	45 🦯	Pass	
WSCT		WITX 7	824.2		29.91	0.67	-1	.48	28.43	38.4	45	Pass	
	\wedge	Slots	836.6		29.28	0.67	-1	.48	27.80	38.4	45	Pass	
		31015	848.8		29.89	0.67	-1	.48	28.41	38.4	45	Pass	
		2 Tx	824.2		29.18	0.67	-1	.48	27.70	38.4	45	Pass	
			836.6		29.71	0.67	-1.	.48	28.23	38.4	45	Pass	
		Slots	848.8		30.00	0.67	-1.	.48	28.52	38.4	45	Pass	
	GPRS850	2 Ту	824.2		28.97	0.67	-1	.48	27.49	38.4	45	Pass	W5
		3 Tx Slots	836.6		29.84	0.67	-1	.48	28.36	38.4	45	Pass	
		SIOLS	848.8		29.67	0.67	-1	.48	28.19	38.4	45	Pass	
			824.2		29.35	0.67	-1	.48	27.87	38.4	45 💋	Pass	
		4 Tx	836.6	1	28.72	0.67	-1.	.48	27.24	38.4	45	Pass	
WSET		Slots	848.8		29.48	0.67	-1	.48	28.00	38.4	45	Pass	
/		4	824.2	1	25.55	0.67		.48	24.07	38.4	45	Pass	
		1 Tx Slots	836.6		25.54	0.67	-1	.48	24.06	38.4	45	Pass	
	\wedge	31015	848.8		25.54	0.67	-1	.48	24.06	38.4	45	Pass	
		2 Tx	824.2		25.18	0.67	-1.	.48	23.70	38.4	45	Pass	
	WSET	Slots	836.6	7	25.38	0.67	-1.	.48	23.90	c / 38.4	45	Pass	W5L
		Siots	848.8		25.66	0.67	1.	.48	24.18	38.4	45	Pass	
	EGPRS850	0.7.	824.2		25.32	0.67	-1	.48	23.84	38.4	45	Pass	
X		3 Tx	836.6		25.42	0.67	-1	.48	23.94	38.4	45	Pass	
		Slots	848.8		25.81	0.67	-1	.48	24.33	38.4	45	Pass	
			824.2		25.18	0.67	-1	.48	23.70	38.4	45	Pass	
WSCT		4 Tx 7	836.6		25.77	0.67		.48	24.29	38.4	45	Pass	
	\sim	Slots	848.8		24.59	0.67	-1	.48	23.11	38.4	45	Pass	
	X		X		-	X				Х			- X
	Mode			uency IHz)	Conduct Output / Power (dl	4V (ntenna Gain (dBi)	EIRI (dBn		Limt (dBm)	Verd	ict	wst
			18	50.2	29.39		1.17	30.5	6 :	33.01	Pas	s	
	100	380	29.84		1.17	31.0	1 :	33.01	Pas	S			
	GSM1900			09.8	29.56		1.17	30.7		33.01	Pas		
			18	50.2 📈	26.29) .	1.17 🖊	27.4	6 :	33.01	Pas		
											1 1 1		

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Tx Pass 1880 27.55 1.17 28.72 33.01 25 F Slots 1909.8 27.69 33.01 26.52 1.17 Pass 1850.2 27.47 1.17 28.64 33.01 Pass 2 Tx 1880 26.67 1.17 27.84 33.01 Pass Slots 1909.8 27.54 1.17 28.71 33.01 Pass **GPRS1900** 1850.2 27.09 1.17 28.26 33.01 Pass 3 Tx 1880 27.84 1.17 29.01 33.01 Pass Slots 1909.8 26.86 1.17 28.03 33.01 Pass 1850.2 27.30 1.17 28.47 33.01 Pass 4 Tx 27.48 1880 1.17 28.65 33.01 Pass Slots 1909.8 26.98 1.17 28.15 33.01 Pass 75 C' 25.84 27.01 1850.2 1.17 33.01 Pass 1 Tx Pass 1880 24.78 1.17 25.95 33.01 Slots 1909.8 24.71 1.17 25.88 33.01 Pass 24.68 1.17 25.85 Pass 1850.2 33.01 2 Tx 25.98 1.17 27.15 Pass 1880 33.01 Slots EGPRS1900 1909.8 24.93 1.17 26.10 33.01 Pass 1.17 1850.2 24.62 25.79 33.01 3 Tx 25.68 Pass 1880 24.51 1.17 33.01 Slots 25.00 1.17 Pass 1909.8 26.17 33.01

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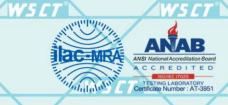
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	X		X		X			X		X
WCDM	A Mode Te	est Data:						/		
М	Band	М	ode	Frequency (MHz)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limt (dBm)	Verdict	WSET
		X		1852.4	21.02	1.17	22.19	33.01	Pass	
		RMC	12.2K	1880 🥖	22.07	1.17	23.24	33.01	Pass	
		/		1907.6	22.31	1.17	23.48	33.01	Pass	
WS CT		WS C	7°	1852.4	21.99	1.17	23.16	33.01	Pass C	
			1 Tx Slots	1880	21.95	1.17	23.12	33.01	Pass	
	\sim			/ 1907.6	21.65	1.17	22.82	33.01	Pass	
	\mathbf{X}			1852.4	22.23 🦯	1.17	23.40	33.01	Pass	
			2 Tx Slots	1880	21.35	1.17	22.52	33.01	Pass	
	5 <i>CT</i>		ME	1907.6	22.12	1.17	23.29	33.01	Pass	WSLT [®]
	367	HSDPA		1852.4	21.86	1.17	23.03	33.01	Pass	
			3 Tx Slots	1880	21.95	1.17	23.12	33.01	Pass	
X		X		1907.6	21.97	1.17	23.14	33.01	Pass	
				1852.4	20.91	1.17	22.08	33.01	Pass	
		1	4 Tx Slots	1880	21.01	1.17	22.18	33.01	Pass	
WS CT	Davido	WS C		1907.6	22.15	1.17	23.32	33.01	Pass	
	Band 2			1852.4	21.13	1.17	22.30	33.01	Pass	
	\sim		1 Tx Slots	1880	21.67	1.17	22.84	33.01	Pass	
	\wedge			1907.6	22.33	1.17	23.50	33.01	Pass	\sim
				1852.4	21.35	1.17	22.52 🧹	33.01	Pass	
	' <i>5 C T</i> ° `		2 Tx Slots	1880	21.15	1.17	22.32	33.01	Ne Pass	WSCT
			/	1907.6	22.15	1.17	23.32	33.01	Pass	/
				1852.4	22.20	1.17	23.37	33.01	Pass	
X		HSUPA	3 Tx Slots	1880 🧹	21.95	1.17	23.12	33.01	Pass	
				1907.6	21.20	1.17 🥖	22.37	33.01	Pass	
WSET		W5C	7.	1852.4	22.12	1.17	23.29	33.01	Pass	
			4 Tx Slots	1880	22.24	1.17	23.41	33.01	Pass	
				1907.6	22.13	1.17	23.30	33.01	Pass	
	X		X	1852.4	21.77 🔪	1.17	22.94	33.01	Pass	X
			5 Tx Slots	1880	21.53	1.17	22.70	33.01	Pass	
				1907.6	22.43	1.17	23.60 🦯	33.01	Pass	
	SET		ws.	and a state of the	/ WS			WSLTI	1	WSCT

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	XX			X	X			X		
	Band	Mode	Frequency (MHz)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limt (dBm)	Verdict	wsc	
			1712.4	21.74	1.05	22.79	30.00	Pass		
\mathbf{X}		RMC 12.2K	1732.6	22.64	1.05	23.69	30.00	Pass		
			1752.6	22.25	1.05	23.30	30.00	Pass		
			1712.4	21.37	1.05	22.42	30.00	Pass		
WSCT		WSCI 1 Tx Slots		22.22	1.05	23.27	30.00	Pass		
/		SIDIS	/ 1752.6	22.45	1.05	23.50	30.00	Pass		
	\sim	2 Tx	1712.4	22.20	1.05	23.25	30.00	Pass		
		Slots	1/326	22.42	1.05	23.47 🧹	30.00	Pass		
		Siots	1752.6	22.34	1.05	23.39	30.00	Pass		
	WSET°	3 Тх	7 1712.4	22.16	1.05	23.21	30.00	Pass	W5C	
		Slots		21.57	1.05	22.62	30.00	Pass		
	Band 4	31013	1752.6	21.84	1.05	22.89	30.00	Pass		
X		4 Tx	1712.4	22.32	1.05	23.37	30.00	Pass		
		Slots	1/2/26	21.68	1.05	22.73	30.00	Pass		
		31015	1752.6	21.80	1.05	22.85	30.00	Pass		
WSET	Danu 4	HSUPA	1712.4	21.97	1.05 -	23.02	30.00	Pass		
	\backslash	1 Tx Slots		21.80	1.05	22.85	30.00	Pass		
	\sim	51015	1752.6	21.65	1.05	22.70	30.00	Pass		
	\wedge	0.7	1712.4	21.90	1.05	22.95	30.00	Pass		
		2 Tx Slots		21.35	1.05	22.40	30.00	Pass		
	WSCT®	51015	5/7 1752.6	22.40	1.05	23.45	30.00	Pass	WSC:	
		3 Tx	1712.4	22.70	1.05	23.75	30.00	Pass		
		Slots		21.68	1.05	22.73	30.00	Pass		
WSET	\mathbf{X}	3005	1752.6	21.79	1.05	22.84	30.00	Pass		
			1712.4	21.75	1.05	22.80	30.00	Pass		
		W5C1 4 Tx Slots	1/3/6	21.81	1.05	22.86	30.00	Pass		
		Siots	1752.6	21.89	1.05	22.94	30.00	Pass		
		E TV	1712.4	21.97	1.05	23.02	30.00	Pass		
		5 Tx Slots	1/3/h	21.56	1.05	22.61	30.00	Pass		
		Siots	1752.6	22.15	1.05	23.20	30.00	Pass		
			C C T	MELET		100				



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	WSET	WSET	WSET	WSET	WSET	
	WS	et ws	CT WSL	WS		TSET
	WSET	WSET	WSET	WSET	WSET	
	ws	$\langle \rangle$	CT WS	$\langle \rangle$		
	WSET	WSET	WSET	WSET	CT	Group (Shenzhen)
/	ADD : Building A-B,Baoli'an Industria TEL : 0086-755-26996192 26996053 2		an Street, Bao'an District, Shenzhen City, Guar E-mail: fengbing.wang@wsct-cert.com	沫圳巴尔慎测	以证股份有限公司 ³⁵ 0/40 M 兼 5	11.03

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				X		X			<		
	Band	Мос	de	Frequency (MHz)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	Limt (dBm)	Verdict	W5E
\mathbf{X}			\times	826.4	22.94	0.67	-1.48	21.46	38.45	Pass	
		RMC 1	2 2K	836.4	21.44	0.67	-1.48	19.96	38.45	Pass	
			2.21	846.6	22.72	0.67	-1.48	21.24	38.45	Pass	
WSCT		/WS	-1 Tx	826.4	22.58	0.67	-1.48	7 21.10	38.45	Pass	
		/	Slots	836.4	22.16	0.67	-1.48	20.68	38.45	Pass	
			0.010	846.6	22.12	0.67	-1.48	20.64	38.45	Pass	
	\wedge		2 Tx	826.4	22.54	0.67	-1.48	21.06	38.45	Pass	
			Slots	836.4	21.51	0.67	-1.48	20.03	38.45	Pass	
	WSC1	HSDPA	01013	846.6	20.98	0.67	-1.48	19.50	38.45	Pass	W5C
			3 Tx	826.4	22.38	0.67	-1.48	20.90	38.45	Pass	INFIG
			Slots	836.4	22.60	0.67	-1.48	21.12	38.45	Pass	
X				846.6	21.89	0.67	-1.48	20.41	38.45	Pass	
			4 Tx	826.4	22.86	0.67	-1.48	21.38	38.45 🧹	Pass	
	Band 5	/ws	Slots	836.4	21.63	0.67	-1.48	20.15	38.45	Pass	
WS CT				846.6	22.27	0.67	-1.48	20.79	38.45	Pass	
	Danu J		1 Tx	826.4	22.18	0.67	-1.48	20.70	38.45	Pass	
			Slots	836.4	22.83	0.67	-1.48	21.35 🔪	38.45	Pass	
2	wst	-	01013	846.6	21.52	0.67	-1.48	20.04	38.45	Pass	
			2 Tx Slots	826.4	22.07	0.67	-1.48	20.59	<u>38.</u> 45	Pass	
				836.4	22.11 🥖	0.67	-1.48	20.63	38.45	Pass	WSC.
				846.6	21.60	0.67	-1.48	20.12	38.45	Pass	
			3 Tx	826.4	21.18	0.67	-1.48	19.70	38.45	Pass	
		HSUPA	Slots	836.4	21.98	0.67	-1.48	20.50	38.45	Pass	
			31015	846.6	22.76	0.67	-1.48	21.28	38.45 🧹	Pass	
WSCT [°]			4 Tx Slots 5 Tx Slots	826.4	21.97	0.67	-1.48	20.49	38.45	Pass	
				836.4	22.13	0.67	-1.48	20.65	38.45	Pass	
				846.6	21.49	0.67	-1.48	20.01	38.45	Pass	
	X			826.4	22.00	0.67	-1.48	20.52 🔵	38.45	Pass	
				836.4	21.63	0.67	-1.48	20.15	38.45	Pass	
	1		31013	846.6	21.79 🧳	0.67	-1.48	20.31	38.45	Pass	1
	awsli			WSLI N		WSLI					WS []

Note 1: For the HSDPA and HSUPA mode, all subtests were tested and just the worst data we rerecorded in this table.

Note 2: ERP/EIRP = PMeas + GT - LC

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ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as

PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

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LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

ERP = EIRP - 2.15; where ERP and EIRP are expressed in consistent units.

Note: Please refer to Annex (LTE Chapter 1 Transmitter Radiated Power) for more test data

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7. Peak to Average Ratio

7.1.1. Limit

FCC § 2.1046 & 24.232(d) & 27.50(d) & 27.50(j) & 27.50(k)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d), power measurements for transmissions by stations ws/ authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d) (5) & 27.50(j) & 27.50(k), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

7.1.2. Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR: a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

b) Set resolution/measurement bandwidth \geq signal's occupied bandwidth;

c) Set the number of counts to a value that stabilizes the measured CCDF curve;

d) Set the measurement interval as follows:

1) for continuous transmissions, set to 1 ms,

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2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

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e) Record the maximum PAPR level associated with a probability of 0.1%.





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7.2. Test Result

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7.2. Test F	Result	WSET	WSC		w	5CT	WSET
	Bai		Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict		/
		128	9.40	13	Pass		
	GSM	850 <u>190</u> 251	9.44 9.68	13 13 5 7	Pass Pass	hurse	
WSET	W5LT	128	11.29	13	Pass	W5C	
	GPRS	S850 190	8.52	13	Pass		
		251 128	9.52 10.60	13 13	Pass Pass	\sim	
WSET	EPRS		10.23	13	Pass	ET [®]	WSET
		251	11.51	13	Pass		
\mathbf{X}	GSM	512 1900 661	8.71 9.58	13 13	Pass Pass	\times	
		810 🥖	11.83	13	Pass		
WSCT	W5 GPRS	512 1900 661	9.59 9.55	13 13	Pass	W5 L	7
	GPRS	810	9.55	13	Pass Pass	/	
X		512	9.55	13	Pass	X	X
	EPRS	1900 <u>661</u> 810	9.20 10.17	13 13	Pass Pass		
wscr		WSLT	WSC		1 835	CT [°]	WSET N
	WCE		Peak-to-Average	Limit(dBm)	Verdict		
X	Bai	nd 9262	Ratio(dB) 3.53	13	Pass	X	
	Ban		3.52	13	Pass		
WS ET	W5LT	9538	3.53	13 5 <i>L</i>	Pass	W5 [7
	Ban	1312 d 4 1413	3.53 3.52	13 13	Pass Pass		
X	Dan	1513	3.51	13	Pass	X	X
		4132	3.52	13	Pass		
WSET	Ban	d 5 4182 4233	3.51 3 .52	13 13	Pass Pass	5 <i>CT</i> °	WSCT
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0.1 % 9.68 dB 0.01 % 9.70 dB 0.001 % 9.71 dB 0.0001 % 9.71 dB 11.56 dB rs ci Peak 35.56 dBm 0.0001 % 0.00 dB Info BW 2.0000 MHz 20.00 dB Oct 12, 2024 X GPRS850 128 W5 pectrum Analyzer 1 ower Stat CCDF + v Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 824.200000 MHz Counts: 1.00 M/1.00 Mpt Radio Std: None Trig: Free Run #IF Gain: Low KEYSIGHT Input: RF Atten: 40 dB Align: Auto 1 Metrics 2 Graph rs c 1 Gaussian Reference Average Power 1.19 dBm 7.65 % at 0 dB 10.0 % -∞ dB 5/ 1.0 % 11.25 dB 0.1 % 11.29 dB 0.01 % 11.33 dB 11.35 dB 0.001 % 11.37 dB 0.0001 % 15 C 1 11.73 dB Peak 12.92 dBm 0.00 dB Info BW 2.0000 MHz 20.00 dE Oct 12, 2024 7:07:53 PM ち ?

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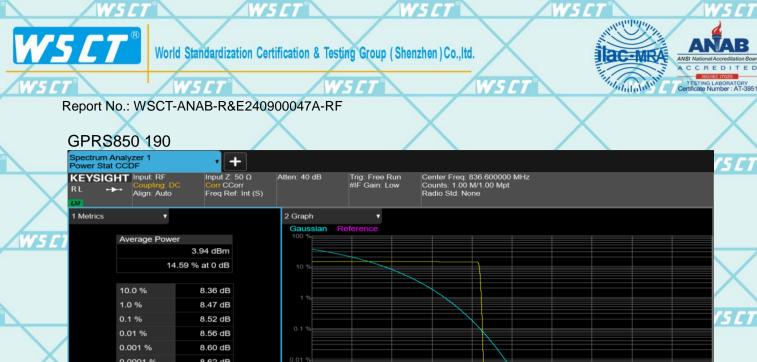
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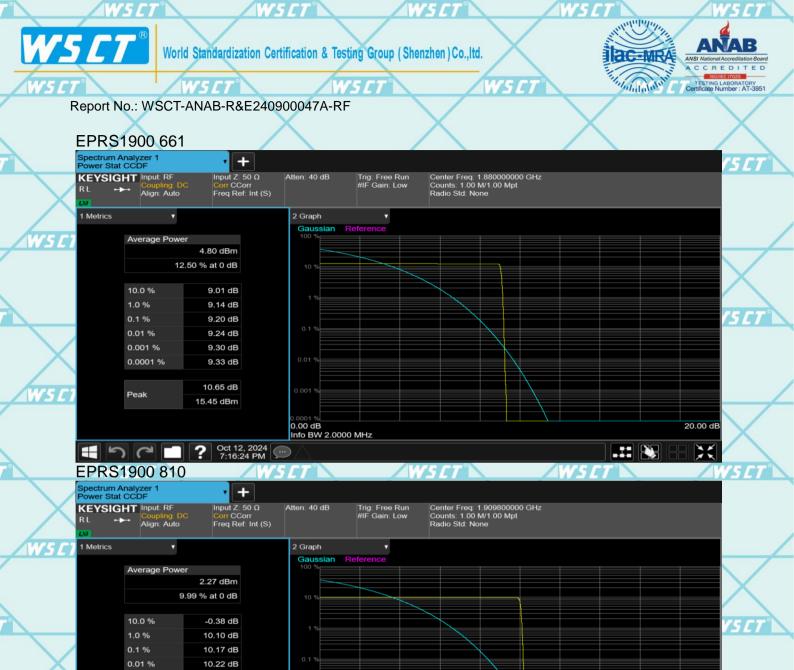


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WSC

10.26 dB

10.29 dB

17.55 dB

19.82 dBm

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