General Information on The Draft Amendment of The Third Generation Mobile Telecommunication Terminal Equipment Technical Specifications

The third-generation mobile communications (3G) service will be terminated in December 2018. Due to the requirement for CSFB, 3G network will still exist in the mobile broadband (4G) network as heterogeneous networks. Therefore, add the frequency of mobile broadband services into this regulation as the basis for the third-generation mobile communication terminal equipment certification. In addition, the referenced standard CNS 15285 " General requirements and test methods for chargers used by mobile terminals and other hand-held ICT devices" was revised on 14 July 2017. In accordance with relevant international technical standards, and the "Technical Specifications for Broadband Terminal Equipment of Mobile Broadband Business", the NCC proposes to revise the "Third Generation Mobile Telecommunication Terminal Equipment Technical Specifications". Also, there is no CDMA2000 service in Taiwan currently, therefore relevant test items are deleted. Amendment points are described as below:

- 1. Foundation and Scope (revision to Point 1)
- 2.Test Items and documents specified (revision to Point 3)
- 3.Date of implementation (deletion to Point 5)

Comparison Table of The Draft Amendments of The Third Generation Mobile Telecommunication Terminal Equipment Technical Specifications

Amended Provisions	Current Provisions	Descriptions	
1. Foundation and Scope	1. Foundation and Scope	The applicable scope of the	
Foundation	Foundation	specifications is	
The specification is issued pursuant to	The specification is issued pursuant to	amended.	
paragraph 1 of Article 42 of the	paragraph 1 of Article 42 of the		
Telecommunications Acts.	Telecommunications Acts.		
Scope	Scope		
This specifications are applied to third	This specification is only applied to the Third		
Generation mobile telecommunication terminal	Generation mobile telecommunication terminal		
equipment. The relevant frequency bands are as	equipment which has been specified in WCDMA FDD		
<u>follows:</u>	(1920 MHz - 1980 MHz and 2110 MHz - 2170		
WCDMA FDD: Band 1 (1920 MHz~1980 MHz/2110 MHz~	MHz), WCDMA TDD(1915 MHz - 1920 MHz and 2010		
2170 MHz), Band 3 (1710 MHz~1785 MHz/1805 MHz	MHz - 2025 MHz) and CDMA2000 FDD(824 MHz -		
\sim 1880 MHz), Band 7 (2500 MHz \sim 2570 MHz/2620 MHz	849 MHz and 869 MHz- 894 MHz, 1920 MHz - 1980		
\sim 2690 MHz), Band 8 (885 MHz \sim 915 MHz/930 MHz \sim	MHz and RX from 2110 MHz to 2170 MHz) technical		
<u>960 MHz).</u>	standards of IMT-2000 .		
WCDMA TDD: (1915 MHz~1920 MHz/2010 MHz~2025	Contents and Reference		
$\underline{ ext{MHz}}$) and (2570 $\underline{ ext{MHz}/2620}$ $\underline{ ext{MHz}}$).	To comply with the international standard, the		
Contents and Reference	test items, conformance requirement, method of		
To comply with the international standard, the	tests and relevant requirements of the Third		
test items, conformance requirement, method of	Generation mobile telecommunication terminal		
tests and relevant requirements of the Third	equipment will be in accordance with the		

Generation mobile telecommunication terminal equipment will be in accordance with the lastest requirements of the 3GPP TS25.101, TS25.102, TS34.121, TS34.122, TS34.124 and 3GPP2 C. S0011-A (TIA/EIA-98-D) when this specification is not applicable. 2. Abbreviations ACLR Adjacent Channel Leakage power Ratio CDMA Code Division Multiple Access ERP Effective Ratiated Power EIRP Effective Isotropic Ratiated Power FCC Federal Communications Commission FDD Frequency Division Duplex ITU International Telecommunication Union MS,UE Mobile Station,User Equipment SAR Specific Absorption Rate TDMA Time Division Multiple Access TDD Time Division Duplex TPC Transmit Power Control WCDMA Wideband Code Division Multiple Access	lastest requirements of the 3GPP TS25.101, TS25.102, TS34.121, TS34.122, TS34.124 and 3GPP2 C.S0011-A (TIA/EIA-98-D) when this specification is not applicable. 2. Abbreviations ACLR Adjacent Channel Leakage power Ratio CDMA Code Division Multiple Access ERP Effective Ratiated Power EIRP Effective Isotropic Ratiated Power FCC Federal Communications Commission FDD Frequency Division Duplex ITU International Telecommunication Union MS,UE Mobile Station,User Equipment SAR Specific Absorption Rate TDMA Time Division Multiple Access TDD Time Division Duplex TPC Transmit Power Control WCDMA Wideband Code Division Multiple Access	This point is not revised.
3. Test Items and documents specified 3. 1 WCDMA FDD 3. 1. 1 Test Items Item Test Items Conformance requirement Test result Compliance	3. Test Items and documents specified 3. 1 WCDMA FDD 3. 1. 1 Test Items Item Test Items Conformance requirement Test result Compliance	1. According to 3GPP TS 25.101, amend the specifications

1 band char space Max 2 outp	annel acing aximum tput wer equency Within ±0.1 PPM	le 1-2	1	Frequency bands and channel spacing	Tx: 1920 MHz - 1980 MHz Rx: 2110 MHz - 2170MHz Tx-Rx frequency separation: 190 MHz The nomonal channel spacing: 5 MHz	of test items for frequency bands, maximum output power, spectrum emissions mask
Min 4 cont outp 5 Occ banc Spec	inimum slot) trolled slot) troupied scupied showidth ectrum sissions = -50 dBm (in or slot) slot) = 5 MHz Comply with table		2	Maximum output power	Power class 1 : 33 dBm +1/-3 dB Power class 2 : 27 dBm +1/-3 dB Power class 3 : 24 dBm +1/-3 dB Power class 4 : 21 dBm +2/-2 dB	and spurious emission. 2. In accordance with the amendment of CNS15285 and "Technical
Cha Leal 7 pow (AC	ljacent Adjacent Channe lannel ±5 MHz : akage ACLR limit 33 d Adjacent Channe CLR) ±10 MHz : ACLR limit 43 d	B; el Offset	4	error Minimum	Within ±0.1 PPM ≤ -50 dBm (in one time slot) ≤ 5 MHz	Specifications for Broadband Terminal Equipment of Mobile
_o Spu	Band 1 : Comply table 1-4 and	y with le 1-5 y with le 1-6 y with le 1-7 y with	7	Spectrum emissions mask Adjacent Channel Leakage power Ratio (ACLR)	As Table 1-1 Adjacent Channel Offset ±5 MHz : ACLR limit 33 dB; Adjacent Channel Offset ±10 MHz :	Broadband Business", revised the ravelent charging regulations of
9 EM	Complying with CNS13438 or 3G AC TS34.124 Device under test shall be tested (no	t (DUT)	8	3,4) Spurious emission	ACLR limit 43 dB; As Table 1-2 and Table 1-3 Complying with CNS13438 or 3GPP	3. 1. 1.

	T	1:1:1- :£. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1	TS24 124	1	
		applicable if none) in				TS34.124		
		operation mode, standby mode (radiation emission				Device under test (DUT) shall be tested (not		
		interference), and				applicable if none) in		
		charging mode (conducted						
		power line emission				operation mode, standby mode (radiation emission		
		interference, not				interference), and		
		applicable if none).				charging mode (conducted		
		applicable if holle).				power line emission		
	Electrical	Complying with				interference, not		
10	safety	CNS14336-1 <u>or</u>				applicable if none).		
	salety	CNS15598-1				applicable if florie).		
	<u>Mobile</u>	Comply with mobile		1 10	Electrical	Complying with		
	phones	station device connection		10	safety	CNS14336-1		
	connection	interface, power adapter				(1)Electrical		
	interface,	connection interface,				requirement:		
	<u>power</u>	charger cable and power				complying with		
11	adapter_	adapter relevant				A4.2.3.1 of CNS15285		
	connection	provisions of "Technical				(2)Complying with the		
	interface,	Specifications for				following provisions of		
		Broadband Terminal				(A) or (B):		
	_	Equipment of Mobile				(A)Socket on mobile		
	adapter_	Broadband Business".			Connecting	phone: complying		
	The Public	Adhere to the provisions			Interface on	with micro-B or		
		of Rule 4			Mobile Mobile	micro-AB in Annex		
10	Disaster			11	Phone	A of CNS15285		
12	Prevention				Handset	Plug to socket on		
	Messages				(hereinafter	mobile phone in		
	Reception				as Handset)	connection cord set		
\	Function		5 0 7 1 0 11		us Hanaset)	for charge:		
Note	e:I. For	test items 2, 3, 4,	5, 6, 7 and 8, the			complying with		
	UE st	nould be operated a	t low frequency, mid			micro-B in Annex A		
		uency and high freq	- · ·			of CNS15285,		
	-		•			Contact 1 is V _{BUS}		
			e lastest method of			and Contact 5 is		
	meası	urement of 3GPP TS3	4. 121 and TS34. 124.			GND in the		
	2 The	annlicant should su	bmit the test report			connecting interface		
	2. IIIC (appireant should su	iomit the test report			(B)If Socket on		

or certificate of approval in compliance with
the relevant regulations for test items 9 and
10.

- 3. Test items 9 to 11 shall be tested with power adapter and charger cable set; for power adapters and charger cable sets that already received certificate of approval, it is a must to submit certificate of approval and testing report in order to be inspection free of test item 11.
- 3.1.2 Specified Documents

SAR limits (hand-held only) Shall comply with the SAR limit for partial body (any part of the head and surrounding area), 2.0 W/Kg(10g) Warning: The applicant should provide with test report and test data. Warning: "For Reducing RF Influence, Use Properly" Method of Labeling: Label on UE, carton and user manual. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance with the requirements of 3GPP) SAR limit for partial body (any part of the head with the should provide with test report and test data. The applicant should provide with guarnatee. The applicant should provide with guarnatee. When the user manuel is English version only. The applicant should provide with guarnatee. When the user manuel is English version only. The applicant should provide with guarnatee. Note the code and certification scope of 3GPP.	Item	Content	Conformance requirement	Note
1 (hand-held only) partial body (any part of the head and surrounding area), 2.0 with test report and test data. 2 Warning: 3 Warning Label Warning Label Properly "Method of Labeling: Label on UE, carton and user manual. 3 SAR Label SAR label Content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. 4 Copy of certificate of approval (e.g., issued by certification body which is accredited in compliance and test data. The applicant should provide with guarnatee. When the user manuel is English version only. The applicant should provide with guarnatee. When the user manuel is English version only. The applicant should provide with guarnatee. Note the code and certification scope of 3GPP.		SAR limits		* *
and surrounding area), 2.0 W/Kg(10g) Warning: "For Reducing RF Influence, Use Properly" Method of Labeling: Label on UE, carton and user manual. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of approval 4 A copy of certificate of approval certificate of approval with test report and test data. The applicant should provide with guarnatee. The applicant should provide with guarnatee. A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance and test data. The applicant should provide with guarnatee. Note the code and certification scope of 3GPP.			partial body (any part of the head	should provide
Wrkg(10g) Warning: "For Reducing RF Influence, Use Properly" Method of Labeling: Label on UE, carton and user manual. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user with guarnatee. "The applicant should provide with guarnatee. The applicant should provide with guarnatee. "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance and certification scope of 3GPP.	1	`	and surrounding area), 2.0	with test report
RF Exposure Warning Label "For Reducing RF Influence, Use Properly " Method of Labeling: Label on UE, carton and user manuel is English version only. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user with guarnatee. A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance and certification scope of 3GPP.		omy)	W/Kg(10g)	and test data.
2 RF Exposure Warning Label "For Reducing RF Influence, Use Properly" Method of Labeling: Label on UE, carton and user manuel is English version only. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user with guarnatee. The applicant should provide with guarnatee. A copy of cartificate of approval (e.g., issued by certification body which is accredited in compliance and certification scope of 3GPP.			Warning:	The applicant
RF Exposure Warning Label Properly " Method of Labeling: Label on UE, carton and user manual. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of approval A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance			D. 1 . D. 1	should provide
Warning Label Method of Labeling: Label on UE, carton and user manual. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of approval A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance		DE Evposure	_	
Label on UE, carton and user wersion only. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user with guarnatee. A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance and certification scope of 3GPP.	2		Properly "	when the user
manual. SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of certificate of approval (e.g., issued by certification body which is accredited in compliance and certification scope of 3GPP.		warning Laber	Method of Labeling:	manuel is English
SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of certificate of approval (e.g., issued by certification body which is accredited in compliance and certification scope of 3GPP.			Label on UE, carton and user	version only.
SAR Label "SAR limit 2.0 W/Kg; testing value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of certificate of approval (e.g., issued by certification body which is accredited in compliance scope of 3GPP.			manual.	
SAR Label value:W/Kg" Labeling method: Label on UE, carton and user manual. A copy of certificate of approval A copy of certificate of approval with guarnatee. Note the code and certification scope of 3GPP.		SAR Label	SAR label content:	The applicant
A copy of certificate of approval which is accredited in compliance A SAR Label Labeling method: Labeling method: Labeling method: Labeling method: Note the code and certification scope of 3GPP.				should provide
Labeling method: Label on UE, carton and user manual. A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance scope of 3GPP.			value:W/Kg"	with guarnatee.
A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance approval scope of 3GPP.	3		Labeling method:	
A copy of certificate of approval A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance scope of 3GPP.			Label on UE, carton and user	
4 Copy of certificate of which is accredited in compliance and certification scope of 3GPP.			manual.	
4 certificate of which is accredited in compliance scope of 3GPP.	4	A	A copy of certificate of approval	Note the code
which is accredited in compliance scope of 3GPP.		* *	(e.g., issued by certification body	and certification
with the requirements of 3GPP)			which is accredited in compliance	scope of 3GPP.
/		appiovai	with the requirements of 3GPP)	

		moone phone does		
		not complying with		
		Provision (A), it		
		should adopt the		
		specific connecting		
		plug in connection		
		cord set for charge		
		or the adapter		
		between micro-B		
		plug and the socket		
		on mobile phone.		
		(3) Complying with the		
		following provisions		
		of (A) or submitting		
		the test report		
		provided in (B):		
		(A)The insulating		
		material of		
		connecting		
		interface: class V-		
		2 material at least		
		(B)The test report		
		complying with the		
		technical		
		specifications of		
		USB-IF(Universal		
		Serial Bus		
		Implementers		
		Forum), it should		
		include the item in		
		(A)		
		(1)Socket on Charger and		
		Plug to socket on		
	Connecting	Charger in connection		
	Interface on	cord set for charge:		
	Charger	Complying with STD-		
		A in Annex A of		
		CNS15285		
-				

mobile phone does

12 Interface Charger

Test equipment may read and record	Electrical Requirement:
the IMEI number of the unique	complying with
5 and unique guarantee proposed by the applicant.	A4.2.3.2 of CNS15285
guarantee	(2) Complying with the
Note: 1. The documents specified by NCC mentioned	following provisions
above are regulated in compliance with	of (A) or submitting
Article 10.1.7 and Article 12.1.7 of	the test report
	provided in (B):
Compliance Approval Regulations of	(A)Mechanism Requirement:
Telecommunications Terminal Equipment.	complying with
2. Procedures of SAR are in accordance with CNS	A4.2.2 of
	CNS15285
14958-1: Human exposure to radio frequency	Insulating
fields from hand-held and body-mounted	Resistance:
wireless communication devices - Human	complying with
models, instrumentation, and procedures -	A4.2.3.3 of
· · · · · · · · · · · · · · · · · · ·	CNS15285
Part 1: Procedure to determine the specific	Insulating
absorption rate (SAR) for hand-held devices	Voltage:
used in close proximity to the ear (frequency	complying with
range of 300 MHz to 3 GHz). Expiration Date	A4.2.3.4 of CNS15285
	Low Level
to perform the related International Standard	Contact
IEC 62209-1 and IEEE Std 1528 is June 30,	Resistance:
2012.	complying with
	A4.2.3.5 of
Table 1-1:	CNS15285
	Contact
Test ItemsBand 1Band 3Band 7Band 8	Capacitance:
<u>Tx : 1920 MHz-</u> <u>Tx : 1710 MHz-</u> <u>Tx : 2500 MHz-</u> <u>Tx : 885 MHz-</u>	complying with
Frequency 1980 MHz 1785 MHz 2570 MHz 915 MHz bands Rx: 2110 MHz- Rx: 1805 MHz- Rx: 2620 MHz- Rx: 930 MHz-	A4.2.3.6 of
<u>bands</u> Rx: 2110 MHz- 2170 MHz Rx: 1805 MHz- 1880 MHz Rx: 2620 MHz- 2690 MHz Rx: 930 MHz- 960 MHz	CNS15285 Insulating
TX-RX	Insulating material of
frequency 190 MHz 95 MHz 120 MHz 45 MHz	annecting

connecting interface: class

frequency

separation

190 MHz

95 MHz

120 MHz

<u>45 MHz</u>

							,		<u> </u>	
<u>Channe1</u>	5 M	Н7						V-2 material at		
spacing	<u>U M</u>	1112]			least		
								(B) The test report		
Tob10 1-9 ·								complying with the		
<u>Table 1-2:</u>								technical		
Maximum Output	Band 1	Band 3	Band 7	Band 8				specifications of		
<u>Power</u>	<u>band 1</u>	Dana 5	Danu 1	<u>Danu o</u>				USB-IF, it should		
Power class 1	33 dBm +1/-3 dB	_	_	_				include the items in		
								(A)		
Power class 2	<u>27 dBm +1/−3 dB</u>	-	-	_				(1) Contact 1 is V _{BUS} and		
Power class 3	<u>2</u> 4 dBm ⊣	+1/−3 dB						Contact 4 is GND in		
D 1 4								the connecting		
Power class 4	<u>21 dBm +</u>	<u>-2/−2 dB</u>						interface STD-A		
								(2) Complying with the		
Table 1-3:								following provisions of (A) or submitting		
	W: . :	1		vr				the test report		
<u>Separation</u>	Minimum Requirem			Measuremen	<u> </u>			provided in (B):		
between the	Realtive requirement	Absolu		Bandwidth				(A) Electrical		
carrier_	(dBc)	require						Requirement:		
frequency and		_(dBm	<u>) </u>					Voltage Drop:		
the center of								complying with		
the measuring filter							Connection	A4.3.3.2 of		
$\Delta f (MHz)$						13	Cord for	CNS15285		
$\Delta 1 \text{ (MHZ)}$	((, , ,))						Charge	Cable Flex:		
2.5 - 3.5	$\left\{-35-15\cdot\left(\frac{\Delta f}{MHz}-2.5\right)\right\}dBc$	-71.	1	30 kHz			5	complying with		
	(MHz)		_					A4.3.6 of		
	$\left\{-35-1\cdot\left(\frac{\Delta f}{}-3.5\right)\right\}dBc$			1 107				CNS15285		
3.5 - 7.5	$\left\{-35-1\cdot\left(\frac{\Delta f}{MHz}-3.5\right)\right\}dBc$	<u>-55.</u>	8	1 MHz				4-Axis		
	()				\dashv			Continuity:		
7.5 - 8.5	$\left\{-39-10\cdot\left(\frac{\Delta f}{MHz}-7.5\right)\right\}dBc$	−55.	8	1 MHz				complying with		
	. , ,				_			A4.3.7 of		
8.5 - 12.5	-49 dBc	<u>-55.</u>		1 MHz	_			CNS15285		
Note: Minimum	requirement is the	lager o	one be	tween				Maximum		
	re requirement and ab							Resistance of		
1001011	o requirement and the	2221410	- cqui	1 Jimoirt.				Wire: not exceed		
								0.232Ω/m		
<u>Table 1-4:</u>								Fireproofing		

Frequency Bandwidth	<u>Measurement</u> <u>Bandwidth</u>	<u>Minimum</u> requirement
$9 \text{ kHz} \leq \text{ f} < 150 \text{ kHz}$	<u>1 kHz</u>	<u>-36 dBm</u>
$150~\mathrm{kHz} \leq \mathrm{f} < 30~\mathrm{MHz}$	<u>10 kHz</u>	<u>-36 dBm</u>
$30~\mathrm{MHz}~\leq~\mathrm{f}~<1000~\mathrm{MHz}$	100 kHz	<u>-36 dBm</u>
$1 \text{GHz} \leq f < 12.75 \text{ GHz}$	1 MHz	-30 dBm

<u>Table 1-5:(Band 1)</u>

Frequency Bandwidth	Measurement Bandwidth	Minimum Requirement
$\underline{462.5} \text{ MHz} \leq \text{f} \leq 467.5 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
$703 \text{ MHz} \leq \text{f} \leq 803 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$\underline{791} \text{ MHz} \leq \text{f} \leq 821 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$852 \text{ MHz} \leq \text{f} \leq 859 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$859 \text{ MHz} \leq f \leq 894 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$921 \text{ MHz} \leq \text{ f } < 925 \text{ MHz}$	<u>100 kHz</u>	<u>-60 dBm</u>
$925 \text{ MHz} \leq \text{f} \leq 935 \text{ MHz}$	<u>100 kHz</u>	<u>-67 dBm</u>
<u>JZJ MIIZ ≦ 1 ≦ JJJ MIIZ</u>	3.84 MHz	<u>-60 dBm</u>
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	<u>100 kHz</u>	<u>-79 dBm</u>
	3.84 MHz	<u>-60 dBm</u>
$\underline{1447 \text{ MHz}} \leq \text{ f } \leq 1467 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$\underline{1452 \text{ MHz}} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$1805 \text{ MHz} \leq \text{f} \leq 1880 \text{ MHz}$	<u>100 kHz</u>	<u>-71 dBm</u>
	3.84 MHz	<u>-60 dBm</u>
$1839.9 \text{ MHz} \le f \le 1879.9 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
<u>1884.5 MHz < f < 1915.7 MHz</u>	300 kHz	<u>-41 dBm</u>
<u>2010 MHz < f < 2025 MHz</u>	3.84 MHz	<u>-60 dBm</u>
$2110 \text{ MHz} \leq \text{f} \leq 2170 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$2170 \text{ MHz} \leq \text{f} \leq 2200 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$2300 \text{ MHz} \leq \text{f} \leq 2400 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$2496 \text{ MHz} \leq \text{f} \leq 2570 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$2570 \text{ MHz} \leq \text{f} \leq 2690 \text{ MHz}$	<u>3.84 MHz</u>	<u>-60 dBm</u>
$3510 \text{ MHz} \leq \text{f} \leq 3590 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$3400 \text{ MHz} \leq \text{f} \leq 3800 \text{ MHz}$	1 MHz	-50 dBm

		Class of Connection Cord		
		for Charge: class		
		VW-1 at least		
		(B) The test report		
		complying with the technical		
		specifications of		
		USB-IF, it should		
		include the items in		
		(A)		
		(1)Input Electricity:		
		complying with 4.3		
		and 4.4 of CNS15285		
		(2)Output Voltage: 5 Vdc,		
		and allowable error is		
		±5 %. Check if it		
		could comply with the		
		above requirement by		
		the experiment		
		provided in 5.4 of		
		CNS15285.		
	Electrical	(3)Output Electricity:		
14	Requirements	complying with the		
	for Charger	provisions from 4.6 to		
		4.9 of CNS15285.		
		(4)Inverse Current:		
		complying with 4.10		
		of CNS15285		
		(5)Consumption Power		
		without Load:		
		complying with 4.11		
		of CNS15285		
		(6)Average Efficiency:		
		complying with 4.12		
	The Dut !: -	of CNS15285		
15	The Public Adhere to the provisions			
	Warning and	of Rule 4		

<u>Table 1-6</u>: (Band 3)

		3.51.1
Frequency Bandwidth	Measurement	
	<u>Bandwidth</u>	<u>Requirement</u>
$\underline{462.5 \text{ MHz}} \leq \text{f} \leq 467.5 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
$703 \text{ MHz} \leq \text{f} \leq 803 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
<u>791 MHz ≤ f ≤ 821 MHz</u>	3.84 MHz	<u>-60 dBm</u>
$852 \text{ MHz} \leq \text{ f} \leq 859 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$859 \text{ MHz} \leq f \leq 894 \text{ MHz}$	3.84 MHz	<u>-60 dBm (註)</u>
$921 \text{ MHz} \leq f < 925 \text{ MHz}$	100 kHz	-60 dBm
925 MHz ≤ f ≤ 935 MHz	<u>100 kHz</u>	<u>-67 dBm</u>
<u>323 miiz ≅ 1 ≅ 333 miiz</u>	3.84 MHz	<u>-60 dBm</u>
935 MHz < f ≤ 960 MHz	<u>100 kHz</u>	<u>-79 dBm</u>
300 MHZ < 1 ≧ 300 MHZ	3.84 MHz	<u>-60 dBm</u>
$\underline{1447 \text{ MHz}} \leq f \leq 1467 \text{ MHz}$	<u>1 MHz</u>	-50 dBm
$1452 \text{ MHz} \leq \text{f} \leq 1496 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$1475.9 \text{ MHz} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u> (Note)
$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$1880 \mathrm{MHz} \leq \mathrm{f} \leq 1920 \mathrm{MHz}$	3.84 MHz	-60 dBm
$1884.5 \text{ MHz} \leq f \leq 1915.7 \text{ MHz}$	300 kHz	<u>-41 dBm</u> (Note)
<u>2010 MHz < f < 2025 MHz</u>	3.84 MHz	<u>-60 dBm</u>
$2110 \text{ MHz} \leq \text{f} \leq 2170 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$2170 \text{ MHz} \leq \text{f} \leq 2200 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$2300 \text{ MHz} \leq \text{f} \leq 2400 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$2496 \text{ MHz} \leq f \leq 2570 \text{ MHz}$	1 MHz	-50 dBm
$2570 \text{ MHz} \leq \text{f} \leq 2690 \text{ MHz}$	3.84 MHz	-60 dBm
$3510 \text{ MHz} \leq \text{f} \leq 3590 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	-50 dBm

Note: Only available for transmissions in 1744.9 MHz to 1784.9 MHz.

Disaster		
Prevention		
Messages		
Reception		
Function		

- Note: 1. For test items 2, 3, 4, 5, 6, 7 and 8, the UE should be operated at low frequency, mid frequency and high frequency meantimesandrefer to the lastest method of measurement of 3GPP TS34.121 and TS34.124.
 - 2. The applicant should submit the test report or certificate of approval in compliance with the relevant regulations for test items 9 and 10.
 - 3. The Handset should be submitted with both the charger and charging connection cable for Type Approval and should comply with Items 9 to 14. A charger and charging connection cable that have been typeapproved with the Handset shall not be inspected with Items 12 to 14 while submitting Certificate and Test report of the Handset. A mobile phone that is not a Handset (under normal operating mode, the distance from the source of transmission is more than 20cm from the body) shall not be inspected with Items 11 to 14.

3.1.2 Specified Documents

Item Content Conformance requirement	Note
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Table	1-7	: (Band	7)

1 1 · (Dana 1)		
Frequency Bandwidth	Measurement	<u>Minimum</u>
rioquene, Banamian	<u>Bandwidth</u>	Requirement
$\underline{462.5 \text{ MHz}} \leq f \leq 467.5 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
$717 \text{ MHz} \leq f \leq 728 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
$729 \text{ MHz} \leq f \leq 746 \text{ MHz}$	3.84 MHz	-60 dBm
$738 \text{ MHz} \leq f \leq 758 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
$746 \text{ MHz} \leq f \leq 756 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$758 \text{ MHz} \leq f \leq 768 \text{ MHz}$	3.84 MHz	-60 dBm
$768 \text{ MHz} \leq f \leq 791 \text{ MHz}$	<u>1 MHz</u>	-50 dBm
$791 \text{ MHz} \leq \text{f} \leq 821 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$852 \text{ MHz} \leq \text{f} \leq 859 \text{ MHz}$	<u>1 MHz</u>	-50 dBm
$859 \text{ MHz} \leq f \leq 894 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$921 \text{ MHz} \leq \text{ f } < 925 \text{ MHz}$	<u>100 kHz</u>	<u>-60 dBm</u>
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	<u>100 kHz</u>	<u>-67 dBm</u>
<u>JZJ MIIZ ≧ 1 ≧ JJJ MIIZ</u>	3.84 MHz	<u>-60 dBm</u>
935 MHz $<$ f \leq 960 MHz	<u>100 kHz</u>	<u>-79 dBm</u>
	3.84 MHz	<u>-60 dBm</u>
$\underline{1452 \text{ MHz}} < f \leq 1496 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
1805 MHz ≤ f ≤ 1880 MHz	<u>100 kHz</u>	<u>-71 dBm</u>
1000 MHZ ≦ 1 ≦ 1000 MHZ	3.84 MHz	<u>-60 dBm</u>
$\underline{1990 \text{ MHz}} \leq \text{f} \leq 1920 \text{ MHz}$	3.84 MHz	-60 dBm
<u>1930 MHz ≤ f ≤ 1995 MHz</u>	3.84 MHz	-60 dBm
<u>2010 MHz < f < 2025 MHz</u>	3.84 MHz	-60 dBm
$2110 \text{ MHz} \leq \text{f} \leq 2170 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$2170 \text{ MHz} \leq \text{f} \leq 2200 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
<u>2300 MHz < f < 2400 MHz</u>	3.84 MHz	<u>-60 dBm</u>
$\underline{2350 \text{ MHz}} \leq \text{f} \leq 2360 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
$2620 \text{ MHz} \leq \text{f} \leq 2690 \text{ MHz}$	<u>3.84 MHz</u>	<u>-60 dBm</u>
$2595 \text{ MHz} \leq \text{f} \leq 2620 \text{ MHz}$	<u>1 MHz</u>	-40 dBm
$3510 \text{ MHz} \leq \text{f} \leq 3590 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	<u>1 MHz</u>	-50 dBm

SAR IIIIIIS			Shall comply with the SAR limit for partial body (any part of the	The applicant should provide
1	(hand-held	head and surrounding area), 2.0	with test report	
	only)		W/Kg(10g)	and test data.
-			Warning:	The applicant should provide
		RF Exposure	"For Reducing RF Influence, Use Properly "	with guarnatee.
	2	Warning Label	• •	when the user
		8	Method of Labeling:	manuel is
			Label on UE, carton and user	English version
Ļ			manual.	only.
			SAR label content:	The applicant
		SAR Label	"SAR limit 2.0 W/Kg; testing	should provide
	_		value:W/Kg"	with guarnatee.
	3		Labeling method:	
			Label on UE, carton and user	
			manual.	
Ī		A conv of	A copy of certificate of approval	Note the code
		A copy of certificate of	(e.g., issued by certification body	and certification
	4	approval	which is accredited in compliance	scope of 3GPP.
L		арргочаг	with the requirements of 3GPP)	
ĺ	·		Test equipment may read and	
		IMEI number	record the IMEI number of the	
	5	and unique	unique guarantee proposed by the	
	-	guarantee	applicant.	
ĺ				

- Note: 1. The documents specified by NCC mentioned above are regulated in compliance with Article 10.1.7 and Article 12.1.7 of Compliance Approval Regulations of Telecommunications Terminal Equipment.
 - 2. Procedures of SAR are in accordance with CNS 14958-1: Human exposure to radio frequency fields from hand-held and body-mounted

Frequency Bandwidth	Measurement Bandwidth	Minimum Requirement
$\underline{462.5 \text{ MHz}} \leq \text{ f } \leq 467.5 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
$703 \text{ MHz} \leq \text{f} \leq 803 \text{ MHz}$	1 MHz	-50 dBm
$791 \text{ MHz} \leq f \leq 821 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
<u>860 MHz ≤ f ≤ 890 MHz</u>	1 MHz	<u>-37 dBm</u> (Note)
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz 3.84 MHz	<u>-67 dBm</u> <u>-60 dBm</u>
<u>935 MHz < f ≤ 960 MHz</u>	100 kHz 3.84 MHz	<u>-79 dBm</u> <u>-60 dBm</u>
$1447 \text{ MHz} \leq \text{f} \leq 1467 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$1452 \text{ MHz} \leq \text{f} \leq 1496 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$\boxed{1475.9~\text{MHz}~\leq~f~\leq~1510.9~\text{MHz}}$	3.84 MHz	<u>-60 dBm</u> (Note)
<u>1805 MHz < f ≤ 1830 MHz</u>	<u>100 kHz</u> 3.84 MHz	<u>-71 dBm</u> <u>-60 dBm</u>
<u>1830 MHz < f ≤ 1880 MHz</u>	100 kHz 3.84 MHz	<u>-71 dBm</u> -60 dBm
$1880 \text{MHz} \leq f \leq 1920 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$\boxed{ 1884.5 \text{ MHz} \leq \text{ f } \leq 1915.7 \text{ MHz} }$	<u>300 kHz</u>	<u>-41 dBm</u> (Note)
$2010 \text{ MHz} \leq \text{f} \leq 2025 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$2110 \text{ MHz} \leq \text{f} \leq 2170 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$2170 \text{ MHz} \leq \text{f} \leq 2200 \text{ MHz}$	<u>1 MHz</u>	<u>-50 dBm</u>
<u>2300 MHz < f < 2400 MHz</u>	3.84 MHz	<u>-60 dBm</u>
$2496 \text{ MHz} \leq \text{f} \leq 2570 \text{ MHz}$	1 MHz	<u>-50 dBm</u>
$2570 \text{ MHz} \leq \text{f} \leq 2640 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
<u>2640 MHz < f ≤ 2690 MHz</u>	3.84 MHz	<u>-60 dBm</u>
$3510 \text{ MHz} \leq \text{f} \leq 3590 \text{ MHz}$	3.84 MHz	<u>-60 dBm</u>
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	<u>-50 dBm</u>

Note: Only available for transmissions in 900 MHz to 915 MHz.

wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012.

Table 1-1:

Δf (MHz)	Minimum Requirement	Measurement Bandwidth
2.5 - 3.5	$\left\{-35-15\cdot\left(\frac{\Delta f}{MHz}-2.5\right)\right\}dBc$	30 kHz
3.5 - 7.5	$\left\{-35-1\cdot\left(\frac{\Delta f}{MHz}-3.5\right)\right\}dBc$	1 MHz
7.5 - 8.5	$\left\{-39-10\cdot\left(\frac{\Delta f}{MHz}-7.5\right)\right\}dBc$	1 MHz
8.5 - 12.5	-49 dBc	1 MHz

Table 1-2:

Frequency Bandwidth	Minimum Requirement (Traffic mode)	Minimum Requirement (Idle mode)	Method of Measurement
$9 \text{ kHz} \leq f < 150 \text{ kHz}$	-36 dBm /1 kHz	-	Conducted
$150 \text{ kHz} \leq \text{f} < 30 \text{ MHz}$	-36 dBm /10 kHz	-	Conducted
$30 \text{ MHz} \leq \text{f} < 1000 \text{ MHz}$	-36 dBm /100	-57 dBm /100	Conducted
	kHz	kHz	
$1 \text{GHz} \leq f < 12.75 \text{ GHz}$	-30 dBm /1 MHz	-47 dBm /1 MHz	Conducted

Table 1-3:

Frequency Bandwidth	Measurement Bandwidth	Minimum Requirement
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz	-67 dBm
935 MHz < f \leq 960 MHz	100 kHz	-79 dBm
$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	100 kHz	-71 dBm
1893.5 MHz < f < 1919.6	300 kHz	-41 dBm
MHz		

3.2 WCDMA TDD

3.2.1 Test Items

Item	Test Items	Conformance requirement	Test result	Compliance
1	Frequency bands and channel spacing	1915 MHz - 1920 MHz 2010 MHz - 2025 MHz 2570 MHz - 2620 MHz channel spacing: 5 MHz (3.84 Mcps TDD Option), 1.6 MHz (1.28 Mcps TDD Option) or 10 MHz (7.68Mcps TDD Option)		
2	Maximum output power	Comply with table 2-1		
3	Frequency error	Within ±0.1 PPM		
4	Minimum controlled output power	≤ -44 dBm (3.84 Mcps TDD Option) ≤ -49 dBm (1.28 Mcps TDD Option) ≤ -41 dBm (7.68 Mcps TDD Option) (in one time slot excluding the guard period)		
5	Occupied	\leq 5 MHz (3.84 Mcps		

3.2 WCDMA TDD

3. 2. 1 Test Items

Item	Test Items	Conformance requirement	Test result	Compliance
1	Frequency bands and channel spacing	1915 MHz - 1920 MHz 2010 MHz - 2025 MHz channel spacing: 5 MHz (3.84 Mcps TDD Option) or 1.6 MHz (1.28 Mcps TDD Option)		
2	Maximum output power	Power class 1: 30 dBm +1/-3 dB Power class 2: 24 dBm +1/-3 dB Power class 3: 21 dBm +2/-2 dB Power class 4: 10 dBm +4/-4 dB		
3	frequency error	Within ±0.1 PPM		
4	Minimum controlled output power	≤ -44 dBm (3.84 Mcps TDD Option) ≤ -49 dBm (1.28 Mcps TDD Option) (in one time slot excluding the guard period)		

- 1. According to 3GPP TS 25.102, amend the specifications of test items for frequency bands, maximum output power, minimum controlled output power, occupied bandwidth, spectrum emissions mask, ACLR and spurious emission.
- 2. In accordance with the amendment of

bandwidth	TDD Option) ≤ 1.6 MHz (1.28 Mcps TDD Option) ≤ 10 MHz (7.68 Mcps TDD Option) As Table 2-2(3.84 Mcps TDD Option) As Table 2-3 (1.28 Mcps	6	Occupied bandwidth Spectrum emissions mask	≤ 5 MHz (3.84 Mcps TDD Option) ≤1.6 MHz (1.28 Mcps TDD Option) As Table 2-1(3.84 Mcps TDD Option) As Table 2-2 (1.28 Mcps TDD Option)	CNS15285 and "Technical Specifications for Broadband Terminal Equipment of
6 emissions mask Adjacent	TDD Option) As Table 2-4 (7.68 Mcps TDD Option) Comply with table 2-1		Adjacent	Adjacent Channel Offset± 5 MHz(3.84 Mcps): Adjacent Channel Offset±	Mobile Broadband Business",
Channel Leakage 7 power Ratio (ACLR) (Power class 2,3)	ss	7	Channel Leakage power Ratio (ACLR) (Power class 2,3)	1.6 MHz(1.28 Mcps): ACLR limit 33 dB; Adjacent Channel Offset± 10 MHz(3.84 Mcps): Adjacent Channel Offset± 3.2 MHz(1.28 Mcps):	revised the ravelent charging regulations of 3.2.1.
_o Spurious	As Table 2-6 and Table 2- 7 (3.84 Mcps TDD Option or 7.68 Mcps TDD	8	Spurious emission	ACLR limit 43 dB; As Table 2-3 and Table 2-4	
8 emission	Option) As Table 2-6 and Table 2- 8 (1.28 Mcps TDD Option)			Complying with CNS13438 or 3GPP TS34.124 Device under test (DUT)	
9 EMC	Complying with CNS13438 or 3GPP TS34.124 Device under test (DUT) shall be tested (not applicable if none) in operation mode, standby mode (radiation emission interference), and charging mode (conducted power line emission interference, not applicable if none).	10	EMC Electrical safety Connecting	shall be tested (not applicable if none) in operation mode, standby mode (radiation emission interference), and charging mode (conducted power line emission interference, not applicable if none). Complying with CNS14336-1 (1) Electrical	

Electrical Complying with	Interface on requirement:
10 cafety CNS14336-1 or	Mobile complying with
<u>CNS13598-1</u>	Phone A4.2.3.1 of CNS15285
Mobile Comply with mobile	Handset (2)Complying with the
phones station device connection	(hereinafter following provisions of
connection interface, power adapter	as Handset) (A) or (B):
interface, connection interface,	(A)Socket on mobile
power charger cable and power	phone: complying
11 <u>adapter</u> <u>adapter relevant</u>	with micro-B or
connection provisions of "Technical	micro-AB in Annex
interface, Specifications for	A of CNS15285
charger cable Broadband Terminal	Plug to socket on
and power Equipment of Mobile	mobile phone in
adapter Broadband Business".	connection cord set
The Public Adhere to the provisions	for charge:
Warning and of Rule 4	complying with
Disaster	micro-B in Annex A
12 Prevention	of CNS15285,
Messages	Contact 1 is V _{BUS}
Reception	and Contact 5 is
Function	GND in the
Note: 1. For test items 2, 3, 4, 5, 6, 7 and 8, the	connecting interface
UE should be operated at low frequency, mid	(B)If Socket on
	mobile phone does
frequency and high frequency	not complying with
meantimesandrefer to the lastest method of	Provision (A), it
measurement of 3GPP TS34.121 and TS34.124.	should adopt the
	specific connecting
	plug in connection
or certificate of approval in compliance with	cord set for charge
the relevant regulations for test items 9 and	or the adapter
10.	between micro-B
	plug and the socket
3. Test items 9 to 11 shall be tested with	on mobile phone.
power adapter and charger cable set; for	(3) Complying with the
power adapters and charger cable sets that	following provisions
power adapters and charger capte sets that	of (A) or submitting
	the test report

	already	received certificate of a	approval, it			provided in (B):		
	·	st to submit certificate o	<u> </u>			(A)The insulating		
	<u>-</u>	ting report in order to be	·			material of		
			e mspection			connecting		
		test item 11.				interface: class V-		
3. 1.	2 Specified	l Documents				2 material at least		
Item	Content	Conformance requirement	Note			(B)The test report complying with		
	CAD 1: :	Shall comply with the SAR limit for	The applicant			the technical		
	SAR limits (hand-held	partial body (any part of the head	should provide			specifications of		
	only)	and surrounding area), 2.0	with test report			USB-		
	omy)	W/Kg(10g)	and test data.			IF(Universal		
		Warning:	The applicant			Serial Bus		
		"For Reducing RF Influence, Use	should provide			Implementers		
	RF Exposure	Properly "	with guarnatee.			Forum), it should		
2	Warning Label		when the user			include the item		
		Method of Labeling:	manuel is English			in (A)		
		Label on UE, carton and user manual.	version only.			(1)Socket on Charger and		
1		SAR label content:	The applicant			Plug to socket on		
		"SAR limit 2.0 W/Kg; testing	should provide			Charger in connection		
		value:W/Kg"	with guarnatee.			cord set for charge:		
3	SAR Label	Labeling method:	with guarmatee.			Complying with STD-A in Annex A of		
		Label on UE, carton and user				CNS15285		
		manual.				Electrical Requirement:		
		A copy of certificate of approval	Note the code			complying with		
	A copy of		and certification		Connecting	A4.2.3.2 of CNS15285		
4	certificate of	which is accredited in compliance	scope of 3GPP.	12		(2) Complying with the		
	approval	with the requirements of 3GPP)	1 -		Charger	following provisions		
	IMEI number	Test equipment may read and record				of (A) or submitting		
11 _	and unique	the IMEI number of the unique				the test report		
5	guarantee	guarantee proposed by the applicant.				provided in (B):		
	8					(A)Mechanism		
Note:	1. The doc	uments specified by NCC me	entioned			Requirement:		
	above at	re regulated in compliance	with			complying with		
		10.1.7 and Article 12.1.7				A4.2.2 of CNS15285		
	ALLICIE	10.1.7 and Article 12.1.	O1			Insulating		
						msulating		

Compliance Approval Regulations of Telecommunications Terminal Equipment. 2. Procedures of SAR are in accordance with CNS 14958-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: Resistance: complying with A4.2.3.3 of CNS15285 Low Level Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNSI5285 Insulating	
2. Procedures of SAR are in accordance with CNS 14958-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: A4.2.3.3 of CNS15285 Insulating A4.2.3.3 of CNS15285 Complying with A4.2.3.4 of CNS15285 Contact Capacitance: complying with A4.2.3.5 of CNS15285 Insulating	
2. Procedures of SAR are in accordance with CNS 14958-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: A4.2.3.3 of CNS15285 Low Level Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
14958-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: Insulating Voltage: complying with A4.2.3.4 of CNS15285 Low Level Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: Voltage: complying with A4.2.3.4 of CNS15285 Low Level Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
rields from nand-neld and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: complying with A4.2.3.4 of CNS15285 Low Level Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: CNS15285 Low Level Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Resistance: complying with A4.2.3.6 of CNS15285 Insulating	
Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: Low Level Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: Contact Resistance: complying with A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1:	
used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1:	
range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1: A4.2.3.5 of CNS15285 Contact Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Table 2-1:	
IEC 62209-1 and IEEE Std 1528 is June 30, 2012. Capacitance: complying with A4.2.3.6 of CNS15285 Insulating	
2012. Table 2-1:	
Z012. A4.2.3.6 of CNS15285 Insulating	
Table 2-1:	
Movimum 2 94 Mono 1 29 Mono 7 69 Mono material of	
output power TDD Option TDD Option TDD Option TDD Option connecting interface: class	
Power class 1 30 dBm +1/-3 dB 33 dBm +1/-3 dB 30 dBm +1/-3 dB V-2 material at	
Power class 2 24 dBm +1/-3 dB 24 dBm +1/-3 dB 24 dBm +1/-3 dB least	
(B) The test report	
Power class 3 21 dBm +2/-2 dB 21 dBm +2/-2 dB 21 dBm +2/-2 dB complying with	
Power class 4 10 dBm +4/-4 dB 27 dBm +1/-3 dB 10 dBm +4/-4 dB the technical	
specifications of USB-IF, it should	
Table 2-2: (3.84 Mcps TDD Option)	
Separation Minimum Requirement Measurement in (A)	
between the Bandwidth (1) Contact 1 is V _{BUS} and	
carrier Connection Contact 4 is GND in	
frequency and the center of the connecting interface STD-A	
the center of (2) Complying with the	

the measuring			\top		following provisions	
filter					of (A) or submitting	
$\Delta f (MHz)$						
<u>Δ1 (MΠZ)</u>			-		the test report	
2.5 - 3.5	$\left\{-35-15\cdot\left(\frac{\Delta f}{MH_{\bullet}}-2.5\right)\right\}dBc$	30 kHz			provided in (B):	
2.5 - 3.5	$\left \left\langle \frac{-33-13}{MHz}, \left\langle \frac{-2.3}{MHz} \right\rangle \right ^{aBC} \right $	30 KHZ			(A) Electrical	
	(((()))		-		Requirement:	
	$\left\{-35-1\cdot\left(\frac{\Delta f}{2}-3.5\right)\right\}dBc$	1 1/11			Voltage Drop:	
3.5 - 7.5	$\left \frac{-33-1}{MHz} - 3.3 \right ^{aBC}$	1 MHz			complying with	
	(, , , , , , , , , , , , , , , , , , ,		-		A4.3.3.2 of	
	$\left\{-39-10\cdot\left(\frac{\Delta f}{2}-7.5\right)\right\}dBc$	1 100			CNS15285	
7.5 - 8.5	$\left \left\langle \frac{-39-10}{MHz} - 7.5 \right\rangle \right ^{aBC}$	1 MHz			Cable Flex:	
0.5 10.5	(' ')	1 107	-		complying with	
8.5 - 12.5	-49 dBc	1 MHz	」 │		A4.3.6 of	
					CNS15285	
Table 2-3:(1	28 Mcps TDD Option)				4-Axis	
		V			Continuity:	
Separation	<u>Minimum Requirement</u>	<u>Measurement</u>			complying with	
between the		<u>Bandwidth</u>			A4.3.7 of	
<u>carrier</u>					CNS15285	
<u>frequency</u> and					Maximum	
the center of					Resistance of	
the measuring					Wire: not exceed	
<u>filter</u>					0.232 Ω/m	
$\Delta f (MHz)$					Fireproofing	
	$\left\{-35-14\cdot\left(\frac{\Delta f}{2}-0.8\right)\right\}_{dBc}$				Class of	
0.8 - 1.8		30 kHz			Connection Cord	
	(MHz)				for Charge: class	
	$\left\{-49-17:\left(\frac{\Delta f}{2}-1.8\right)\right\}_{dBc}$				VW-1 at least	
1.8 - 2.4		30 kHz			(B) The test report	
	$\left(\begin{array}{c} MHz \end{array}\right)$				complying with the	
2.4 - 4.0	-44 dBc	1 MHz			technical	
					specifications of	
m 11 0 4 7	00 11				USB-IF, it should	
Table 2-4: (7.	68 Mcps TDD Option)				include the items in	
Separation	Minimum Requirement	Measurement			(A)	
between the		Bandwidth		Electrical	(1)Input Electricity:	
carrier				Requirements	complying with 4.3	
frequency and				for Charger	and 4.4 of CNS15285	
	<u> </u>		┙ ╽╵	ioi Chargei	and 4.4 of CNS13283	

the center of the measuring filter $\Delta f (MHz)$		
<u>5.0 - 5.75</u>	$\left\{-38-10.67\cdot\left(\frac{\Delta f}{MHz}-5.0\right)\right\}dBc$	30 kHz
<u>5.75 - 7.0</u>	$\left\{-46-5.6\cdot\left(\frac{\Delta f}{MHz}-5.75\right)\right\}dBc$	<u>30 kHz</u>
7.0 - 15.0	$\left\{-38 - 0.5 \cdot \left(\frac{\Delta f}{MHz} - 7.0\right)\right\} dBc$	1 MHz
<u>15.0 - 17.0</u>	$\left\{-42-5.0\cdot\left(\frac{\Delta f}{MHz}-15.0\right)\right\}dBc$	1 MHz
<u>17.0 - 25.0</u>	<u>-53 dBc</u>	1 MHz

Table 2-5:

	Adjacent Channel	Chip Rate for RRC Measurement Filter	ACLR Limit
3.84 Mcps	<u>±5 MHz</u>		33 dB
TDD Option	<u>±10 MHz</u>		<u>43 dB</u>
1.28 Mcps	<u>±1.6 MHz</u>		<u>33 dB</u>
TDD Option	<u>±3.2 MHz</u>		<u>43 dB</u>
	<u>±7.5 MHz</u>	3.84 MHz	<u>33 dB</u>
7.68 Mcps	<u>±12.5 MHz</u>	<u>3.84 MHz</u>	<u>43 dB</u>
TDD Option	<u>±10 MHz</u>	<u>7.68 MHz</u>	<u>33 dB</u>
	<u>±20 MHz</u>	7.68 MHz	43 dB

<u>Table 2-6:</u>

Frequency Bandwidth	Measurement Bandwidth	Minimum Requirement
$9 \text{ kHz} \leq \text{ f} < 150 \text{ kHz}$	<u>1 kHz</u>	<u>-36 dBm</u>

		(2)Output Voltage: 5 Vdc,	
		and allowable error is	
		±5 %. Check if it	
		could comply with the	
		above requirement by	
		the experiment	
		provided in 5.4 of	
		CNS15285.	
		(3)Output Electricity:	
		complying with the	
		provisions from 4.6 to	
		4.9 of CNS15285.	
		(4)Inverse Current:	
		complying with 4.10	
		of CNS15285	
		(5)Consumption Power	
		without Load:	
		complying with 4.11	
		of CNS15285	
		(6)Average Efficiency:	
		complying with 4.12	
		of CNS15285	
	The Public	Adhere to the provisions	
	Warning and	of Rule 4	
	Disaster		
15	Prevention		
	Messages		
	Reception		
	Function		

Note: 1. For test items 2, 3, 4, 5, 6, 7 and 8, the UE should be operated at low frequency, mid frequency and high frequency meantimesandrefer to the lastest method of measurement of 3GPP TS34.122 and TS34.124.

$150 \text{ kHz} \leq \text{f} < 30 \text{ MHz}$	<u>10 kHz</u>	<u>-36 dBm</u>
$30 \text{ MHz} \leq \text{ f} < 1000 \text{ MHz}$	<u>100 kHz</u>	<u>−36 dBm</u>
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$	1 MHz	<u>−30 dBm</u>

Table 2-7: (3.84 Mcps TDD Option • 7.68 Mcps TDD Option)

Frequency Bandwidth	Measurement Bandwidth	Minimum Requirement
$921 \text{ MHz} \leq \text{ f} < 925 \text{ MHz}$	<u>100 kHz</u>	<u>-60 dBm</u>
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	<u>100 kHz</u>	<u>-67 dBm</u>
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	<u>100 kHz</u>	<u>-79 dBm</u>
$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	<u>100 kHz</u>	<u>-71 dBm</u>
$2620 \text{ MHz} \leq \text{f} \leq 2690 \text{ MHz}$	3.84 MHz	<u>-37 dBm</u>
$1884.5 \text{ MHz} \le f \le 1915.7 \text{ MHz}$	300 kHz	<u>−41 dBm</u>

Table 2-8: (1.28 Mcps TDD Option)

Frequency bands	Frequency Bandwidth	Measurement Bandwidth	Minimum Requirement
	$703 \text{ MHz} \leq \text{f} < 803 \text{ MHz}$	1 MHz	-50 dBm (註
			<u>2)</u>
	$921 \text{ MHz} \leq f < 925 \text{ MHz}$	100 kHz	<u>-60 dBm</u>
	$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz	<u>-67 dBm</u>
	$935 \text{ MHz} < f \leq 960 \text{ MHz}$	<u>100 kHz</u>	<u>-79 dBm</u>
	$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	<u>100 kHz</u>	<u>-71 dBm</u>
1915 MHz∼1920 MHz;	$2010 \text{ MHz} \leq \text{f} \leq 2025 \text{ MHz}$	1 MHz	<u>-65 dBm</u>
			(Note 1)
2010 MHz~2025 MHz	$1880 \text{ MHz} \leq \text{f} \leq 1920 \text{ MHz}$	1 MHz	<u>-65 dBm</u>
2010 MM2 2020 MM2			(Note2)
	$2300 \text{ MHz} \leq \text{f} \leq 2400 \text{ MHz}$	1 MHz	<u>-65 dBm</u>
			(Note2)
	$2496 \text{ MHz} \leq \text{f} \leq 2690 \text{ MHz}$	1 MHz	<u>−50 dBm</u>
			(Note2)
	$3400 \text{ MHz} \leq \text{f} < 3600 \text{ MHz}$	1 MHz	<u>−50 dBm</u>
			(Note2)

- 2. The applicant should submit the test report or certificate of approval in compliance with the relevant regulations for test items 9 and 10.
- 3. The Handset should be submitted with both the charger and charging connection cable for Type Approval and should comply with Items 9 to 14. A charger and charging connection cable that have been type-approved with the Handset shall not be inspected with Items 12 to 14 while submitting Certificate and Test report of the Handset. A mobile phone that is not a Handset (under normal operating mode, the distance from the source of transmission is more than 20cm from the body) shall not be inspected with Items 11 to 14.

3.2.2 Specified Documents

Item	Content	Conformance requirement	Note
1	SAR limits (hand-held only)	Shall comply with the SAR limit for partial body (any part of the head and surrounding area), 2.0 W/Kg(10g)	The applicant should provide with test report and test data.
2	RF Exposure Warning Label	Warning: "For Reducing RF Influence, Use Properly" Method of Labeling: Label on UE, carton and user manual.	The applicant should provide with guarnatee. when the user manuel is English version only.

	$1900 \text{ MHz} \leq \text{f} \leq 1920 \text{ MHz}$	1 MHz	<u>-65 dBm</u>
2570 MHz∼2620 MHz	$2010 \text{ MHz} \leq \text{f} \leq 2025 \text{ MHz}$	1 MHz	<u>-65 dBm</u>
	$2620 \text{ MHz} \leq \text{f} \leq 2690 \text{ MHz}$	3.84 MHz	<u>-37 dBm</u>

Note: 1. Only available for transmissions in 1915 MHz to 1920 MHz frequency band.

2. Only available for transmissions in 2010 MHz to 2025 MHz frequency band.

3	SAR Label	SAR label content: "SAR limit 2.0 W/Kg; testing value:W/Kg"	The applicant should provide with guarnatee.
3		Labeling method: Label on UE, carton and user manual.	
4	A copy of certificate of approval	A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance with the requirements of 3GPP)	Note the code and certification scope of 3GPP.
5	IMEI number and unique guarantee	Test equipment may read and record the IMEI number of the unique guarantee proposed by the applicant.	

Note: 1. The documents specified by NCC mentioned above are regulated in compliance with Article 10.1.7 and Article 12.1.7 of Compliance Approval Regulations of Telecommunications Terminal Equipment.

2. Procedures of SAR are in accordance with CNS 14958-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012.

Table 2-1: (3.84 Mcps TDD Option)

	or meka are operation	
$\Delta\mathrm{f}\left(\mathrm{MHz}\right)$	Minimum Requirement	Measurement
		Bandwidth
2.5 - 3.5	$\left\{-35-15\cdot\left(\frac{\Delta f}{MHz}-2.5\right)\right\}dBc$	30 kHz
3.5 - 7.5	$\left\{-35-1\cdot\left(\frac{\Delta f}{MHz}-3.5\right)\right\}dBc$	1 MHz
7.5 - 8.5	$\left\{-39-10\cdot\left(\frac{\Delta f}{MHz}-7.5\right)\right\}dBc$	1 MHz
8.5 - 12.5	-49 dBc	1 MHz

Table 2-2: (1.28 Mcps TDD Option)

14616 2 2 (1.	Bo Meps TDD option/	
$\Delta f (MHz)$	Minimum Requirement	Measurement
		Bandwidth
0.8	-35 dBc	30 kHz
0.8 - 1.8	$\left\{-35 - 14 \cdot \left(\frac{\Delta f}{MHz} - 0.8\right)\right\} dBc$	30 kHz
1.8 - 2.4	$\left\{-49 - 25 \cdot \left(\frac{\Delta f}{MHz} - 1.8\right)\right\} dBc$	30 kHz
2.4 - 4.0	-49 dBc	1 MHz

Table 2-3:

14510 2 0			
	Minimum	Minimum	Method of
Frequency Bandwidth	Requirement	Requirement	Measurement
	(Traffic mode)	(Idle mode)	
9 kHz \leq f < 150 kHz	-36 dBm /1 kHz	-	Conducted
$150 \text{ kHz} \leq \text{f} < 30 \text{ MHz}$	-36 dBm /10 kHz	-	Conducted
$30 \text{ MHz} \leq \text{f} < 1000 \text{ MHz}$	-36 dBm /100	-57 dBm /100	Conducted
	kHz	kHz	

1 GHz ≦	$\leq f < 12.75$	GHz -3	30 dBm /1 MHz	-47 dBm	/1 MHz Conducted	
Table 2	2-4:					
Frequ	uency Bandw	idth	Measurement Ban	dwidth	Minimum Requirement	
925 MHz	z ≤ f ≤ 95	35 MHz	100 kHz		-67 dBm	
935 MHz	$z < f \leq 96$	0 MHz	100 kHz		-79 dBm	
1805 MHz	$z \le f \le 18$	380 MHz	100 kHz		-71 dBm	
3. 3 Ba	and Class	s 0 of	CDMA2000 F1	DD		Currently, there
	Test Ite					is no CDMA2000
			ance requiremen	t Test r	esult Compliance	service in
			MHz - 849 MHz			Taiwan, therefore
		Band Cla				relevant test
fred	011040 OT 1		MHz - 894 MHz	<u>z</u>		
ban	nde -	Γx-Rx fre				items are
1	ana -	_	1: 45 MHz pacing:			deleted.
	unici .		<u>pacing.</u> z(Spreading Rate	,		
spa) or	s(Spreading Ruit			
			z(Spreading Rate	2		
	=	3)				
			<u>ss 1 : 1</u>			
	1	6.3 W)	5 W) ~8 dBW			
	xımum_		ass 2:-3			
- /. I	put		W) ~4 dBW (2.5	5		
<u>po</u> (ER	Sb)	<u>W)</u>				
	<u> </u>		uss 3: -7			
		<u>IBW(0.2</u> W)	W) ~0 dBW (1.0	<u> </u>		
frec		Within ±3	300 Hz			
3 erro						
			Bm/1.23 MHz			
con	ntrolled (Spreadin	g Rate 1)			

	antent e arriae	≦ -50 dBm/3.69 MHz
	output power	
		(Spreading Rate 3)
		Spreading Rate 1: As
	Conducted	<u>Table 3-1</u>
<u>5</u>	spurious	Spreading Rate 3: As
	emission	Table 3-2
		Complying with
		CNS13438,FCC PART 15
		subpart B or CISPR 22
		Device under test (DUT)
		shall be tested (not
		applicable if none) in
6	EMC	operation mode, standby
<u>6</u>	EIVIC	mode (radiation emission
		interference), and
		charging mode (conducted
		power line emission
		interference, not
		applicable if none).
_	electrical	Complying with
7_	safety	<u>CNS14336-1</u>
		(1)Electrical
		requirement:
		complying with
		A4.2.3.1 of CNS15285
	1	(2)Complying with the
	Connecting	following provisions of
<u>8</u>	Interface on	
	Mobile	(A)Socket on mobile
	<u>Phone</u>	phone : complying
		with micro-B or
		micro-AB in Annex
		A of CNS15285
		Plug to socket on
		mobile phone in
		mone phone in

connection cord set
for charge:
complying with
micro-B in Annex A
of CNS15285,
Contact 1 is V _{BUS}
and Contact 5 is
GND in the
connecting interface
(B)If Socket on
mobile phone does
not complying with
Provision (A), it
should adopt the
specific connecting
plug in connection
cord set for charge
or the adapter
between micro-B
plug and the socket
on mobile phone.
(3) Complying with the
following provisions
of (A) or submitting
the test report
provided in (B):
(A)The insulating
material of
connecting
interface: class V-
2 material at least
(B)The test report
complying with the
<u>technical</u>
specifications of
<u>USB-IF(Universal</u>
Serial Bus
Implementers
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

- 1	1		1	
		Forum), it should		
		include the item in		
		(A)		
		(1)Socket on Charger and	1	
		Plug to socket on		
		Charger in connection		
		cord set for charge:		
		Complying with STD-		
		A in Annex A of		
		CNS15285		
		Electrical Requirement:		
		complying with		
		A4.2.3.2 of CNS15285		
		(2) Complying with the		
		following provisions		
		of (A) or submitting		
		the test report		
		provided in (B):		
		(A)Mechanism		
	Connecting	Requirement:		
9	Interface on	complying with		
-	Charger Charger	<u>A4.2.2 of</u>		
		CNS15285		
		<u>Insulating</u>		
		Resistance:		
		complying with		
		A4.2.3.3 of		
		<u>CNS15285</u>		
		UNSI J20J		
		Insulating		
		Voltage:		
		complying with		
		A4.2.3.4 of		
		CNS15285		
		Low Level		
		Contact		
		Resistance:		
		complying with		
		<u>A4.2.3.5 of</u>		

	1		
		<u>CNS15285</u>	
		Contact	
		Capacitance:	
		complying with	
		<u>A4.2.3.6 of</u>	
		<u>CNS15285</u>	
		<u>Insulating</u>	
		material of	
		connecting	
		interface: class	
		V-2 material at	
		<u>least</u>	
		(B) The test report	
		complying with the	
		technical_	
		specifications of	
		USB-IF, it should	
		include the items in	
		(A)	
		(1) Contact 1 is V _{BUS} and	
		Contact 4 is GND in	
		the connecting	
		interface STD-A	
		(2) Complying with the	
		following provisions	
		of (A) or submitting	
		the test report	
	Commontion	provided in (B):	
	Connection	provided iii (D):	
	Cord for		
	Charge	Requirement:	
		Voltage Drop:	
		complying with	
		A4.3.3.2 of	
		CNS15285	
		Cable Flex:	
		complying with	
		<u>A4.3.6 of</u>	
		<u>CNS15285</u>	
		<u>UNS15285</u>	

1	ı	
		<u>4-Axis</u>
		Continuity:
		complying with
		A4.3.7 of
		CNS15285
		<u>CNS13263</u>
		Maximum
		Resistance of
		Wire: not exceed
		$0.232 \Omega/m$
		Fireproofing
		Class of Class of
		Connection Cord
		for Charge: class
		VW-1 at least
		(B) The test report
		complying with the
		technical technical
		specifications of
		USB-IF, it should
		include the items in
		(<u>A</u>)
		(1)Input Electricity:
		complying with 4.3
		and 4.4 of CNS15285
		(2)Output Voltage: 5 Vdc,
		and allowable error is
		±5 %. Check if it
		could comply with the
	Electrical	above requirement by
11	Requirements	the experiment the experiment
	for Charger	provided in 5.4 of
	101 Chargo	CNS15285.
		(2)O + + F1 + 1 1 1
		(3)Output Electricity:
		complying with the
		provisions from 4.6 to
		4.9 of CNS15285.
		(4)Inverse Current:
		complying with 4.10
		comprying with 7.10

of CNS15285 (5)Consumption Power	
without Load:	
complying with 4.11 of CNS15285	
(6)Average Efficiency:	
complying with 4.12 of CNS15285	

- Note: 1. For test items 2, 3, 4 and 5, the UE

 should be operated at low frequency, mid

 frequency and high frequency

 meantimesandrefer to the lastest method of

 measurement of 3GPP2 C. S0011-A.
 - 2. The applicant should submit the test report or certificate of approval in compliance with the relevant regulations for test items 6 and 7.
 - 3. The Handset should be submitted with both the charger and charging connection cable for Type Approval and should comply with Items 9 to 14. A charger and charging connection cable that have been typeapproved with the Handset shall not be inspected with Items 12 to 14 while submitting Certificate and Test report of the Handset. A mobile phone that is not a Handset (under normal operating mode, the distance from the source of transmission is more than 20 cm from the body) shall not be inspected with Items 11 to 14.

<u>3. 3. 2</u>	3.3.2 Specified Documents					
<u>Item</u>	<u>Content</u>	Conformance requirement	<u>Note</u>			
1	SAR limits (hand-held only)	Shall comply with the SAR limit for partial body (any part of the head and surrounding area), 2.0 W/Kg(10g)	The applicant should provide with test report and test data.			
2	RF Exposure Warning Label	Warning: "For Reducing RF Influence, Use Properly " Method of Labeling: Label on UE, carton and user manual.	The applicant should provide with guarnatee. when the user manuel is English version only.			
<u>3</u>	SAR Label	SAR label content: "SAR limit 2.0 W/Kg; testing value: W/Kg" Labeling method: Label on UE, carton and user manual.	The applicant should provide with guarnatee.			
4	A copy of certificate of approval	A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance with the requirements of 3GPP2)	Note the code and certification scope of 3GPP2.			
<u>5</u>	IMEI number and unique guarantee	Test equipment may read and record the IMEI number of the unique guarantee proposed by the applicant.				

Note: 1. The documents specified by NCC mentioned

above are regulated in compliance with

Article 10.1.7 and Article 12.1.7 of

Compliance Approval Regulations of

Telecommunications Terminal Equipment.

2. Procedures of SAR are in accordance with

CNS 14958-1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz). Expiration Date to perform the related International Standard IEC 62209-1 and IEEE Std 1528 is June 30, 2012.

Table 3-1: (Spreading Rate 1)

$\frac{\text{For} \Delta \text{ f Within the}}{\text{Range}}$	Emission Limit				
885 kHz - 1.98 MHz	Less stringent of -42 dBc/30 kHz or -54 dBm/1.23 MHz				
1.98 MHz - 4.00 MHz	Less stringent of -54 dBc/30 kHz or -54 dBm/1.23 MHz				
>4.00 MHz (ITU Category A; Tx: 825 MHz - 835 MHz of Band Class 0)	-13 dBm/1 kHz; 9 kHz < f < 150 kHz				
>4.00 MHz (ITU Category B; Tx: 835 MHz - 845 MHz of Band Class 0)	-36 dBm/1 kHz; 9 kHz < f < 150 kHz				

Table 3-2: (Spreading Rate 3) For Δ f Within the Range 2.5 MHz - 2.7 MHz -14 dBm/30 KHz 2.7 MHz - 3.5 MHz -[14+15 · (Δf - 2.7 MHz)]dBm/30 KHz	
3.5 MHz − 7.5 MHz -[13+1 • (Δf −3.5 MHz)]dBm/1 MHz 7.5 MHz − 8.5 MHz -[17+10 • (Δf −7.5 MHz)]dBm/1 MHz 8.5 MHz − 12.5 MHz -27 dBm/1 MHz	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
3.4 Band Class 6 of CDMA2000 FDD 3.4.1 Test Items Item Test Items Conformance requirement Test result Compliance	Currently, there is no CDMA2000 service in Taiwan, therefore relevant test items are deleted.

1	frequency bands and channel spacing	Tx: 1920 MHz - 1980 MHz (Band Class 6) Rx: 2110 MHz - 2170 MHz Tx-Rx frequency separation: 190 MHz channel spacing: 1.23 MHz(Spreading Rate 1) or 3.69 MHz(Spreading Rate 3)
	maximum output power (EIRP)	Power class 1 : -2 $dBW(0.63 \text{ W}) \sim 3 \text{ dBW}$ (2.0 W) Power class 2 : -7 $dBW(0.2 \text{ W}) \sim 0 \text{ dBW}$ (1.0 W) Power class 3 : -12 $dBW(63 \text{ mW}) \sim -3 \text{ dBW}$ (0.5 W) Power class 4 : -17 $dBW(20 \text{ mW}) \sim -6 \text{ dBW}$ (0.25 W) Power class 5 : -22 $dBW(6.3 \text{ mW}) \sim -9$ dBW(0.13 W)
١ ١	<u>frequency</u> error	Within ±150 Hz
<u>4</u>	minimum controlled	≤ -50 dBm/1.23 MHz (Spreading Rate 1) ≤ -50 dBm/3.69 MHz (Spreading Rate 3)
	occupied bandwidth	≤ 1.48 MHz (Spreading Rate 1) ≤ 4.6 MHz (Spreading

		Rate 3)	
	Conducted	Spreading Rate 1: As	
<u>6</u>	spurious	Table 4-1 and Table 4-3 Spreading Rate 3: As	
	<u>emission</u>	Table 4-2 and Table 4-3	
		Complying with	
		CNS13438,FCC PART 15 subpart B or CISPR 22	
		Device under test (DUT)	
		shall be tested (not	
_		applicable if none) in	
<u>7_</u>	<u>EMC</u>	operation mode, standby	
		mode (radiation emission interference), and	
		charging mode (conducted	
		power line emission	
		interference, not	
	electrical	applicable if none). Complying with	
		CNS14336-1	
		(1)Electrical	
		requirement:	
		complying with	
		A4.2.3.1 of CNS15285 (2)Complying with the	
		following provisions of	
	<i>a</i> ::	(A) or (B) :	
	Connecting Interface on	(A)Socket on mobile	
	Mobile Mobile	phone: complying	
	Phone Phone	with micro-B or	
		micro-AB in Annex A of CNS15285	
		Plug to socket on	
		mobile phone in	
		connection cord set	
		for charge:	
		complying with	

micro-B in Annex A
of CNS15285,
Contact 1 is V _{BUS}
and Contact 5 is
GND in the
connecting interface
(B)If Socket on
mobile phone does
not complying with
Provision (A), it
should adopt the
specific connecting
plug in connection
cord set for charge
or the adapter
between micro-B
plug and the socket
on mobile phone.
(3) Complying with the
following provisions
of (A) or submitting
the test report
provided in (B):
(A)The insulating
material of
connecting
interface: class V-
2 material at least
(B)The test report
complying with the
technical
specifications of
USB-IF(Universal
Serial Bus
<u>Implementers</u>
Forum), it should
include the item in
$\overline{(A)}$
1 1 1 1

	(1)Socket on Charger and Plug to socket on	
	Charger in connection	
	cord set for charge :	
	Complying with STD-	
	A in Annex A of CNS15285	
	Electrical Requirement:	
	complying with	
	A4.2.3.2 of CNS15285	
	(2) Complying with the	
	following provisions	
	of (A) or submitting	
	the test report provided in (B):	
	(A)Mechanism	
	Requirement:	
G .:	complying with	
Connecting Interface on	A4.2.2 of	
Charger	<u>CNS15285</u>	
<u>Charger</u>	<u>Insulating</u>	
	Resistance: complying with	
	A4.2.3.3 of	
	<u>CNS15285</u>	
	Insulating	
	Voltage:	
	complying with	
	A4.2.3.4 of	
	<u>CNS15285</u>	
	<u>Low Level</u> <u>Contact</u>	
	Resistance:	
	complying with	
	A4.2.3.5 of	
	CNS15285	
	<u>Contact</u>	
	Capacitance:	

-			1	
		complying with		
		A4.2.3.6 of		
		<u>CNS15285</u>		
		Insulating		
		<u>insulating</u>		
		material of		
		<u>connecting</u>		
		interface: class		
		V-2 material at		
		<u>least</u>		
		(B) The test report		
		complying with the		
		technical		
		specifications of		
		USB-IF, it should		
		include the items in		
		(A)		
		(1) Contact 1 is V _{BUS} and		
		C + + 4 : CND:		
		Contact 4 is GND in		
		the connecting		
		interface STD-A		
		(2) Complying with the		
		following provisions		
		lollowing provisions		
		of (A) or submitting		
		the test report		
		provided in (B):		
		(A) Electrical		
	Connection			
<u>11</u>	Cord for	Requirement:		
	Charge	Voltage Drop:		
	Charge	complying with		
		A4.3.3.2 of		
		CNS15285		
		<u>CN313203</u>		
		Cable Flex:		
		complying with		
		A4.3.6 of		
		CNS15285		
		4-Axis_		
		Continuity:		
		complying with		

	- 1			
			<u>A4.3.7 of</u>	
			<u>CNS15285</u>	
			<u>Maximum</u>	
			Resistance of	
			Wire: not exceed	
			$0.232\Omega/m$	
			Fireproofing	
			Class of	
			Connection Cord	
			for Charge: class	
			VW-1 at least	
			(B) The test report	
			complying with	
			the technical	
			specifications of	
			USB-IF, it should	
			include the items	
			in (A)	
	_			
		•	(1)Input Electricity:	
			complying with 4.3	
			and 4.4 of CNS15285	
			(2)Output Voltage: 5 Vdc,	
			and allowable error is	
			±5 %. Check if it	
			could comply with the	
			above requirement by	
	ъ.		the experiment	
		lectrical_	provided in 5.4 of	
12	2 Re	equirements		
	for	" Charaan	<u>CNS15285.</u>	
			(3)Output Electricity:	
			complying with the	
			provisions from 4.6 to	
			4.9 of CNS15285.	
			(4)Inverse Current:	
			complying with 4.10	
			of CNS15285	
			(5)Consumption Power	
			without Load:	
			willout Loau.	

complying with 4.11 of
CNS15285 (6)Average Efficiency:
complying with 4.12
of CNS15285
Note: 1. For test items 2, 3, 4, 5 and 6, the UE
should be operated at low frequency, mid
frequency and high frequency
meantimesandrefer to the lastest method of
measurement of 3GPP2 C.S0011-A.
2. The applicant should submit the test report
or certificate of approval in compliance
with the relevant regulations for test items
7 and 8.
3. The Handset should be submitted with both
the charger and charging connection cable
for Type Approval and should comply with
Items 9 to 14. A charger and charging
connection cable that have been type-
approved with the Handset shall not be
inspected with Items 12 to 14 while
submitting Certificate and Test report of
the Handset. A mobile phone that is not a
Handset (under normal operating mode, the
distance from the source of transmission is
more than 20 cm from the body) shall not be
inspected with Items 11 to 14.
3.4.2 documents specified
Item Content Conformance requirement Note

<u>1</u>	SAR limits (hand-held only)	Shall comply with the SAR limit for partial body (any part of the head and surrounding area), 2.0 W/Kg(10g)	The applicant should provide with test report and test data.
2	RF Exposure Warning Label	Warning: "For Reducing RF Influence, Use Properly " Method of Labeling: Label on UE, carton and user manual.	The applicant should provide with 40uarantee When the user manuel is English version only.
<u>3</u>	SAR Label	SAR label content: "SAR limit 2.0 W/Kg; testing value: W/Kg" Labeling method: Label on UE, carton and user manual.	The applicant should provide with 40uarante
<u>4</u>	A copy of certificate of approval	A copy of certificate of approval (e.g., issued by certification body which is accredited in compliance with the requirements of 3GPP2)	Note the code and certification scope of 3GPP2
<u>5</u>	IMEI number and unique guarantee	Test equipment may read and record the IMEI number of the unique guarantee proposed by the applicant.	

Note: 1. The documents specified by NCC mentioned

above are regulated in compliance with

Article 10.1.7 and Article 12.1.7 of

Compliance Approval Regulations of

Telecommunications Terminal Equipment.

2. Procedures of SAR are in accordance with CNS 14958-1: Human exposure to radio frequency fields from hand-held and body-

Mounted wireless communication devices Human models, instrumentation, and
procedures - Part 1: Procedure to
determine the specific absorption rate
(SAR) for hand-held devices used in close
proximity to the ear (frequency range of
300 MHz to 3 GHz). Expiration Date to
perform the related International Standard
IEC 62209-1 and IEEE Std 1528 is June 30,
2012.

Table 4-1: (Spreading Rate 1)

table i i (opicaa	The hate 1)
$\frac{\text{For} \ \Delta \ \text{f} \ \text{Within the}}{\text{Range}}$	Emission Limit
1.25 MHz – 1.98 MHz	Less stringent of -42 dBc/30 kHz or -54 dBm/1.23 MHz
1.98 MHz – 4.00 MHz	Less stringent of -50 dBc/30 kHz or -54 dBm/1.23 MHz
2.25 MHz – 4.00 MHz	-[13+1 • (Δf-2.25 MHz)]dBm/1 MHz
>4.00 MHz	-36 dBm/1 kHz; 9 kHz < f < 150 kHz

Table 4-2: (Spreading Rate 3)

For Δ	f	Within	the	Emission Limit
Range				Emission Limit

	2.5 MHz – 2.7 MHz	-14 dBm/30 KHz		
	2.7 MHz – 3.5 MHz	-[14+15 • (Δf-2.7 MHz)]d	lBm/30 KHz	
	3.08 MHz	-33 dBc/3.84 MHz		
	3.5 MHz – 7.5 MHz	-[13+1 • (∆f –3.5 MHz)]dE	Bm/1 MHz	
	7.5 MHz – 8.5 MHz	-[17+10 • (∆f –7.5 MHz)]d	lBm/1 MHz	
	8.08 MHz	-43 dBc/3.84 MHz		
	8.5 MHz – 12.5 MHz	-27 dBm/1 MHz		
	>12.5 MHz	-36 dBm/10 kHz; 150 kH -36 dBm/100 kHz; 30 M	Hz < f < 150 kHz Hz < f < 30 MHz Hz < f < 1 GHz Hz < f < 12.75 GHz	
	Note: Δf =center	frequency - closer	measurement	
	edge frequency	<u></u>		
	Table 4-3: (Spread	ling Rate 1,3)		
	Frequency Bandwic	dth Measurement Bandwidth	<u>Minimum</u> <u>Requirement</u>	
	$925 \text{ MHz} \leq f \leq 93$		<u>-67 dBm</u>	
	935 MHz < f ≤ 960		<u>-79 dBm</u>	
	$\frac{1805 \text{ MHz}}{\text{MHz}} \leq f \leq$	1880 <u>100 kHz</u>	<u>-71 dBm</u>	
	1893. 5 MHz < f < 19	19.6 <u>300 kHz</u>	<u>-41 dBm</u>	
4. The Public Warning and Disaster Prevention Messages	4 The Public Warn	ing and Disaster Pre	vention Messages	This point is not
Reception Function.	4. The Public Warning and Disaster Prevention Messages Reception Function.		revised.	
4.1 This test is suitable for terminal devices with	4.1 This test is suitable for terminal devices with			
access voice services function that have been provided	access voice services function that have been			
by mobile broadband service operators.	provided by mobile broadband service operators.			
4.2 The public warning system (PWS) refers to the use	4.2 The public wa	rning system (PWS) r	efers to the use	This point is not

of cell broadcast service (CBS) function of the mobile						
communication system. The CBS message identifier (MI)						
and the PWS alert contents will be sent by the base						
station to the receiving system of the terminal						
devices of a certain area.						

- 4.3 Terminal devices should have the ability to receive the message identifier (MI) and display PWS alert contents.
- 4.3.1 The language of the contents PWS alerts, message identifier, classification, preset receiving on or off, and the options of subscribers, etc shall comply with the provisions of table 5.1.
- 4.3.2 The mobile device has been set up to receive the PWS message identifier (MI). When the mobile device receives the PWS alert, the device should clearly display the alert text and the message identifier (MI) in the subject header. See Figure 1 as a reference.
- 4.3.3 Each message identifier shall be tested respectively following a PWS alert text.
- (1) The language of the PWS content in Traditional Chinese: [The message for public warning message Testing] Your mobile phone operator has set up cell broadcasting systems for transmitting public warning messages. Now this service is still in trial. We apologize for any inconvenience it may cause and appreciate your kind understanding. National Communications Commission

of cell broadcast service (CBS) function of the mobile communication system. The CBS message identifier (MI) and the PWS alert contents will be sent by the base station to the receiving system of the terminal devices of a certain area.

revised.

- 4.3 Terminal devices should have the ability to receive the message identifier (MI) and display PWS alert contents.
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- (1) The language of the PWS content in Traditional Chinese: [The message for public warning message Testing] Your mobile phone operator has set up cell broadcasting systems for transmitting public warning messages. Now this service is still in trial. We apologize for any inconvenience it may cause and appreciate your

This point is not revised.

- (2) The language of the PWS content in English: [The message for public warning message Testing] Your mobile phone operator has set up cell broadcasting systems for transmitting public warning messages. Now this service is still in trial. We apologize for any inconvenience it may cause and appreciate your kind understanding. National Communications Commission
- 4.3.4 Mobile devices should have the ability to recall alert messages for review by the subscriber.
- 4.3.5 Mobile devices shall not support any user interface capabilities to forward received PWS alerts, or to copy and paste PWS alert contents.

- kind understanding. National Communications
 Commission
 The language of the DWS content in English:
- (2) The language of the PWS content in English:

 [The message for public warning message Testing]

 Your mobile phone operator has set up cell broadcasting systems for transmitting public warning messages. Now this service is still in trial. We apologize for any inconvenience it may cause and appreciate your kind understanding. National Communications Commission
- 4.3.4 Mobile devices should have the ability to recall alert messages for review by the subscriber.
- 4.3.5 Mobile devices shall not support any user interface capabilities to forward received PWS alerts, or to copy and paste PWS alert contents.

4.4 Audio signal:

- 4.4.1 The audio signal shall be categorized into two kinds of signal: audio attention signal and audio general signal.
- (1) Audio attention signal:
- A. The audio attention signal shall have special audio frequency and special break duration. The audio attention signal shall not be set up by the subscriber or modified.
- (A) Special audio frequency: For devices that have polyphonic capabilities, the audio attention signal must consist of the fundamental frequencies

4.4 Audio signal:

- 4.4.1 The audio signal shall be categorized into two kinds of signal: audio attention signal and audio general signal.
- (1) Audio attention signal:
- A. The audio attention signal shall have special audio frequency and special break duration. The audio attention signal shall not be set up by the subscriber or modified.
- (A) Special audio frequency: For devices that have polyphonic capabilities, the audio attention signal must consist of the fundamental

This point is not revised.

- of 853 Hz and 960 Hz transmitted simultaneously. For devices with only a monophonic capability, the audio attention signal must be 960 Hz.
- (B) Special break duration: The audio attention signal must have a temporal pattern of one long tone of two seconds, followed by two short tones of one second each, with a half second interval between each tone. The entire sequence must be repeated twice with a half second interval between each repetition.
- (C) The temporal pattern of audio attention signal is shown in Figure 2.
- B. The audio attention signal must be restricted to use for alert messages under PWS.
- (2) The audio general signal does not have special audio frequency and special break duration. Audio general signal shall be set up by the subscriber or modified into other pattern. When the mobile device receives the message, it shall produce the audio signal.
- 4.4.2 Generating timing: The mobile device has been set up to receive the PWS message identifier (MI). When mobile device receives the PWS alert, the device should produce corresponding audio signal as shown in Table 5.2 in accordance with the message identifier (MI) and the subscriber's setting.
- 4.4.3 The audio signal is considered to be an optout by the subscriber with the initial default

- frequencies of 853 Hz and 960 Hz transmitted simultaneously. For devices with only a monophonic capability, the audio attention signal must be 960 Hz.
- (B) Special break duration: The audio attention signal must have a temporal pattern of one long tone of two seconds, followed by two short tones of one second each, with a half second interval between each tone. The entire sequence must be repeated twice with a half second interval between each repetition.
- (C) The temporal pattern of audio attention signal is shown in Figure 2.
- B. The audio attention signal must be restricted to use for alert messages under PWS.
- (2) The audio general signal does not have special audio frequency and special break duration. Audio general signal shall be set up by the subscriber or modified into other pattern. When the mobile device receives the message, it shall produce the audio signal.
- 4.4.2 Generating timing: The mobile device has been set up to receive the PWS message identifier (MI). When mobile device receives the PWS alert, the device should produce corresponding audio signal as shown in Table 5.2 in accordance with the message identifier (MI) and the subscriber's setting.
- 4.4.3 The audio signal is considered to be an opt-

configuration being that all emergency alerts are	out by the subscriber with the initial default	
enabled.	configuration being that all emergency alerts are	
4.4.4 When the mobile device activates the audio	enabled.	
signal, the subscriber may deactivate that audio	4.4.4 When the mobile device activates the audio	
signal early.	signal, the subscriber may deactivate that audio	
	signal early.	
4.5 The vibration cadence:	4.5 The vibration cadence:	This point is not
4.5.1 The vibration cadence shall be divided into two	4.5.1 The vibration cadence shall be divided into	revised.
kinds of cadences: vibration attention cadence and	two kinds of cadences: vibration attention	
vibration general cadence.	cadence and vibration general cadence.	
(1) Vibration attention cadence:	(1) Vibration attention cadence:	
A. The vibration attention cadence must have the	A. The vibration attention cadence must have the	
special break duration. The vibration attention	special break duration. The vibration attention	
cadence shall not be set up by the subscriber or	cadence shall not be set up by the subscriber or	
modified.	modified.	
(A) Special break duration: The vibration attention	(A) Special break duration: The vibration attention	
cadence must have a temporal pattern of one long	cadence must have a temporal pattern of one long	
vibration of two seconds, followed by two short	vibration of two seconds, followed by two short	
vibrations of one second each, with a half second	vibrations of one second each, with a half second	
interval between each vibration. The entire	interval between each vibration. The entire	
sequence must be repeated twice with a half second	sequence must be repeated twice with a half	
interval between each repetition.	second interval between each repetition.	
(B) The temporal pattern of vibration attention	(B) The temporal pattern of vibration attention	
cadence is shown in Figure 3.	cadence is shown in Figure 3.	
B. The vibration attention cadence must be	B. The vibration attention cadence must be	
restricted to use for alert messages under PWS.	restricted to use for alert messages under PWS.	
C. The signal between vibration attention cadence	C. The signal between vibration attention cadence	
and audio attention signal does not need to be	and audio attention signal does not need to be	

synchronized.	synchronized.	
	•	
(2) The vibration general cadence does not have	(2) The vibration general cadence does not have	
special break duration. When the mobile device	special break duration. When the mobile device	
receives the message, the device will produce the	receives the message, the device will produce	
vibration general cadence.	the vibration general cadence.	
4.5.2 Generating timing: the mobile device has been	4.5.2 Generating timing: the mobile device has been	
set up to receive the PWS message identifier (MI).	set up to receive the PWS message identifier (MI).	
When mobile device receives the PWS alert, the device	When mobile device receives the PWS alert, the	
should produce corresponding vibration cadence as	device should produce corresponding vibration	
shown in Table 5.2 in accordance with the message	cadence as shown in Table 5.2 in accordance with	
identifier (MI) and the subscriber's setting.	the message identifier (MI) and the subscriber's	
4.5.3 The vibration cadence is considered to be an opt-	setting.	
out by the subscriber with the initial default	4.5.3 The vibration cadence is considered to be an	
configuration being that all emergency alerts are	opt-out by the subscriber with the initial default	
enabled.	configuration being that all emergency alerts are	
4.5.4 When mobile the device activates the vibration	enabled.	
cadence, the subscriber may deactivate that vibration	4.5.4 When mobile the device activates the vibration	
cadence early.	cadence, the subscriber may deactivate that	
Cauchice early.	vibration cadence early.	
4 6 The presentation of the presived DWC close message	·	This point is not
4.6 The presentation of the received PWS alert message	4.6 The presentation of the received PWS alert message	=
should take priority over other mobile device	should take priority over other mobile device	revised.
functions. The PWS alert message shall not preempt an	functions. The PWS alert message shall not preempt	
active voice or data session.	an active voice or data session.	
4.7 Measures of handling duplicate PWS alert messages:	4.7 Measures of handling duplicate PWS alert	
4.7.1 Duplicate PWS alert message refers to PWS alert	messages:	revised.
messages with the same message identifier and	4.7.1 Duplicate PWS alert message refers to PWS	
serial number, indicating that they have been sent	alert messages with the same message identifier	
repeated. The definition of serial number shall	and serial number, indicating that they have been	

refer to the technical standard 3GPP TS 23.041.	sent repeated. The definition of serial number	
4.7.2 Where the equipment receives duplicate PWS	shall refer to the technical standard 3GPP TS	
alert message from the base station, it shall not	23. 041.	
show the message content or generate signal and	4.7.2 Where the equipment receives duplicate PWS	
vibration.	alert message from the base station, it shall not	
	show the message content or generate signal and	
	vibration.	
	5. These articles shall become effective as of the	The
	date of promulgation.	implementation
	The revised articles, which were implemented on	date of this
	March 1, 2016, were amended on December 22, 2015.	specification
		will be stated in
		the announcement,
		therefore this
		point is deleted.

Table 5.1 The Language of PWS Alert Contents of Message Identifier, Classification, Preset Receiving On or Off, and The Options of Subscribers, etc.

Message identi of PWS ale	~ ~	Classification	Preset receiving on or off	The options of subscriber
911/Chinese	919/English	Alert Message	Preset receiving on	Yes
4370/Chinese	4383/English	Presidential Alert	Preset receiving on	No
4371/Chinese	4384/English	Emergency Alert	Preset receiving on	Yes
4372/Chinese	4385/English	Emergency Alert	Preset receiving on	Yes
4373/Chinese	4386/English	Emergency Alert	Preset receiving on	Yes
4374/Chinese	4387/English	Emergency Alert	Preset receiving on	Yes
4375/Chinese	4388/English	Emergency Alert	Preset receiving on	Yes
4376/Chinese	4389/English	Emergency Alert	Preset receiving on	Yes
4377/Chinese	4390/English	Emergency Alert	Preset receiving on	Yes

Table 5.1 The Language of PWS Alert Contents of Message Identifier, Classification, Preset Receiving On or Off, and The Options of Subscribers, etc.

Subsci	ibers, etc.			
Message identi of PWS ale		Classification	Preset receiving on or off	The options of subscriber
911/Chinese	919/English	Alert Message	Preset receiving on	Yes
4370/Chinese	4383/English	Presidential Alert	Preset receiving on	No
4371/Chinese	4384/English	Emergency Alert	Preset receiving on	Yes
4372/Chinese	4385/English	Emergency Alert	Preset receiving on	Yes
4373/Chinese	4386/English	Emergency Alert	Preset receiving on	Yes
4374/Chinese	4387/English	Emergency Alert	Preset receiving on	Yes
4375/Chinese	4388/English	Emergency Alert	Preset receiving on	Yes
4376/Chinese	4389/English	Emergency Alert	Preset receiving on	Yes
4377/Chinese	4390/English	Emergency Alert	Preset receiving on	Yes
4378/Chinese	4391/English	Emergency Alert	Preset	Yes

This table is not revised.

4378/Chines	se 4391/English	Emergency Alert	Preset receiving on	Yes
4379/Chines	se 4392/English	Emergency Alert	Preset receiving on	Yes
4380/Chines	se 4393/English	Required Monthly Test	Preset receiving on	Yes

			receiving	
			on	
4379/Chinese	4392/English	Emergency Alert	Preset receiving on	Yes
4380/Chinese	4393/English	Required Monthly Test	Preset receiving on	Yes

Table 5.2 Device should produce corresponding audio signal and vibration cadence in accordance with the message identifier (MI) and the subscriber's setting.

Mag	35000		Subscribe	r's setting	
	ssage itifier	Deactivate	Activate	Deactivate	Activate
idei	itiliei	sound	sound	vibration	vibration
911	919		Produce audio general signal		Produce vibration general cadence
4370	4383		-		
4371	4384			C .	
4372	4385	Can not		Can not	
4373	4386	produce audio	Produce	produce vibration	Produce
4374	4387	signal	audio	cadence	vibration
4375	4388	Signai		Cauchice	
4376	4389		attention		attention
4377	4390		signal		cadence
4378	4391		_		
4379	4392				
4380	4393				

Table 5.2 Device should produce corresponding audio signal and vibration cadence in accordance with the message identifier (MI) and the subscriber's setting.

Mas		Subscriber's setting				
	ssage	Deactivate	Activate	Deactivate	Activate	
ideli	ntifier sound		sound	vibration	vibration	
911	919		Produce		Produce	
			audio		vibration	
			general		general	
			signal		cadence	
4370	4383					
4371	4384	Can not		Connot		
4372	4385	Can not		Can not		
4373	4386	produce audio signal	Produce	produce vibration	Produce	
4374	4387		audio	cadence	vibration	
4375	4388			cadelice		
4376	4389		attention		attention	
4377	4390		signal		cadence	
4378	4391		٥			
4379	4392					
4380	4393					

This table is not revised.



