

# FCC RADIO TEST REPORT FCC ID: 2AKO6-T1011

Product: Tablet

Trade Mark: ALLDOCUBE

Model No.: T1011

Family Model: U1006、U1008、U1010、U1101、U1102、 U1103、T701、T802、T1015、T1016、T1017 T1018、T1019、T1020、T1021、T1022、 T1023 Report No.: STR200703001005E Issue Date: 17 Jul. 2020

# **Prepared for**

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# **Prepared by**

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### **1 TEST RESULT CERTIFICATION**

Shenzhen Alldocube Technology and Science Co., Ltd
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Shenzhen Alldocube Technology and Science Co., Ltd
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Tablet
T1011
U1006、U1008、U1010、U1101、U1102、U1103、T701、T802、T1015、 T1016、T1017、T1018、T1019、T1020、T1021、T1022、T1023

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
47 CFR Part 2, Part 22H, Part 24E	
ANSI/TIA-603-E-2016	Complied
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied
ANSI C63.26:2015	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	03 Jun. 2020 ~ 17 Jun, 2020	
Testing Engineer	:	(Cheng Jiawen)	
Technical Manager	:	Juson chen (Jason Chen)	
Authorized Signatory	:	(Sam Cher)	



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2.1051 22.917(a) Conducted Emission PASS	
24.238(a) Conducted Emission FASC KDB 971168 D01 Clause 6	
<ul> <li>Remark:</li> <li>1. "N/A" denotes test is not applicable in this Test Report.</li> <li>2. All test items were verified and recorded according to the standards and without a the test.</li> <li>3. No modifications are made to the EUT during all test items.</li> <li>4. This EUT has also been tested and complied with the requirements of FCC I recorded in a separate test report.</li> </ul>	-



### **3 FACILITIES AND ACCREDITATIONS**

#### 3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.26 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description CNAS-Lab.	: The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A-1.
FCC- Accredited	Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
	<ul> <li>Shenzhen NTEK Testing Technology Co., Ltd.</li> <li>1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.</li> </ul>

#### 3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of $95\%$ (U = $2Uc(y)$ )	2.5dB
		•



Product Feature and Specification								
Equipment Tablet								
Trade Mark	ALLDOCUBE							
FCC ID	2AKO6-T1011							
Model No.	T1011							
Family Model	U1006、U1008、U1010、U1101、U1102、U1103、T701、T802、T1015、T1016、 T1017、T1018、T1019、T1020、T1021、T1022、T1023							
Model Difference	All models are the same circuit and RF module, except the model name.							
Operating Frequency	GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz;							
Modulation	☐GMSK for GSM/GPRS; ☐8PSK for EGPRS; ☐QPSK for UMTS bands;							
Power Class	4, tested with power level 5(GSM 850) 1, tested with power level 0(GSM 1900) 3, tested with power control "all 1"(WCDMA Band II/V)							
GPRS Class	⊠Multi-Class12 ⊠Only 4 timeslots are used for GPRS							
SIM CARD	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.							
Antenna Type	PIFA Antenna							
Antenna Gain	GSM850:1.0 dBi, PCS1900:1.4 dBi, UMTS FDD Band II: 1.4dBi, UMTS FDD Band V: 1.0dBi,							
	DC supply: DC 3.8V/6000mAh from battery or DC 5V from adapter.							
Power supply	Adapter supply: Adapter : Model: APS-W010050200W-G Input: 100-240V~50/60Hz 0.35A Max Output: 5V2.0A							
HW Version	V1.1							
SW Version T1011S-V1.0-20200509								

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. The High Voltage 4.4V and Low Voltage 3.2V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.



Revision History						
Report No.	Version	Description	Issued Date			
STR200703001005E	Rev.01	Initial issue of report	Jul 17, 2020			



# 5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on all frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, HSDPA band II, HSUPA band II, RMC 12.2k band II, HSDPA band V, HSUPA band V, RMC 12.2k band V modes have been tested during the test. the worst condition (GSM850, GSM1900, RMC 12.2k) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850/UMTS FDD Band V

2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes						
Band For Conducted Test Cases		For Radiated Test Cases				
GSM 850 GSM Link		GSM Link				
GSM 1900	GSM Link	GSM Link				
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link				

#### Test Frequency and Channels:

Frequency	GSM 850		⊠GSM 1900		UMTS Band II		UMTS Band V	
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	189	836.4	661	1880.0	9400	1880.0	4182	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4



# SETUP OF EQUIPMENT UNDER TEST 6 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For Radiated Test Cases EUT For Conducted Output Power Measurement C1 Attenuator EUT Instrument For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission System Simulator C3 Power Divider C2 Spectrum Analyzer Attenuator EUT C4 For Frequency Stability Measurement C6 C5 DC Power Attenuator EUT Instrument Source Thermal Chamber Note: EUT built-in battery-powered, the battery is fully-charged.

#### 6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
EUT	Tablet	ALLDOCUBE	T1011	N/A	

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m
C-6	DC Cable	NO	NO	1.0m

#### Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



#### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2019.08.28	2020.08.27	1 year
2	Test Receiver	R&S	ESPI	101318	2020.05.11	2021.05.10	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	1 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2020.04.11	2021.04.10	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2019.12.10	2020.12.09	1 year
7	Amplifier	EM	EM-30180	060538	2019.08.06	2020.08.05	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2020.05.11	2021.05.10	1 year
9	Power Meter	R&S	NRVS	100696	2019.08.06	2020.08.05	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2020.05.11	2021.05.10	1 year
11	Test Cable	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
12	Test Cable	N/A	R-02	N/A	2019.08.06	2020.08.05	3 year
13	Test Cable	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
15	LISN	R&S	ENV216	101313	2020.05.11	2021.05.10	1 year
16	LISN	EMCO	3816/2	00042990	2020.05.11	2021.05.10	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2020.05.11	2021.05.10	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2020.04.11	2021.04.10	3 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2021.05.10	1 year
22	Attenuator	MCE	24-10-34	BN9258	2020.05.11	2021.05.10	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2020.05.11	2021.05.10	1 year
24	test receiver	R&S	ESCI	a0304218	2020.05.11	2021.05.10	1 year
25	Communication Tester	R&S	CMU200	A0304247	2019.08.06	2020.08.05	1 year



26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2020.05.11	2021.05.10	1 year
27	DC Power Source	N/A	PS-6005D	2017040292 3	2017.06.06	2020.06.05	3 year
28	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2019.08.06	2020.08.05	1 year
29	Communication Tester	R&S	CMW500	148500	2020.05.11	2021.05.10	1 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.



## 7 TEST REQUIREMENTS

#### 7.1 FIELD STRENGTH OF SPURIOUS RADIATION

#### 7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

#### 7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P) dB$ . The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

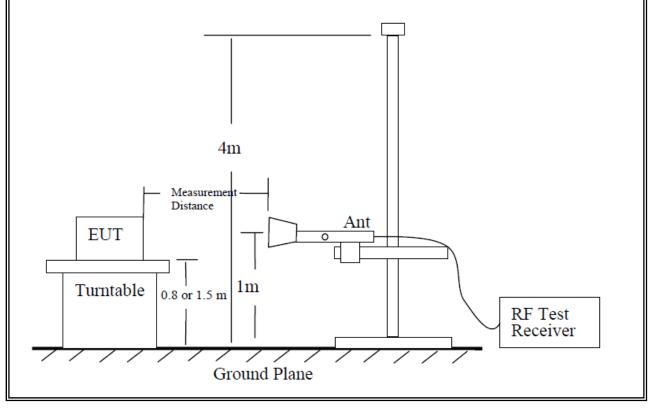
#### 7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

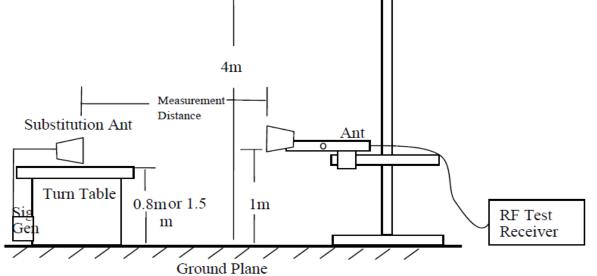
#### 7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II / WCDMA Band V / GSM 850 / GSM 1900.

#### **TEST CONFIGURATION**







#### 7.1.5 Test Procedure

- EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P<sub>r</sub>).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P<sub>r</sub>). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test. The measurement results are obtained as described below: Power(EIRP)= SG Level- Cable Loss+ Antenna Gain
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



7.1.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen

#### Radiated Spurious Emission

			GS	M 850				
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
		Test Re	esults for Ch	annel 128/8	24.2 MHz			
1648.4	-50.15	2.80	27.50	-25.45	-13	-12.45	Vertical	
1648.4	-52.52	2.80	27.50	-27.82	-13	-14.82	Horizontal	
2472.6	-46.42	2.91	27.80	-21.53	-13	-8.53	Vertical	
2472.6	-50.47	2.91	27.80	-25.58	-13	-12.58	Horizontal	
3296.8	-48.65	4.02	29.87	-22.80	-13	-9.80	Vertical	
3296.8	-46.23	4.02	29.87	-20.38	-13	-7.38	Horizontal	
131.2	-51.89	1.35	17.77	-35.47	-13	-22.47	Vertical	
116.8	-51.3	1.77	17.83	-35.24	-13	-22.24	Horizontal	
Test Results for Channel 189/836.4 MHz								
1673.2	-53.16	2.80	27.48	-28.48	-13	-15.48	Vertical	
1673.2	-51	2.80	27.48	-26.32	-13	-13.32	Horizontal	
2509.8	-49.92	2.91	27.70	-25.13	-13	-12.13	Vertical	
2509.8	-47.82	2.91	27.70	-23.03	-13	-10.03	Horizontal	
3346.4	-49.92	4.02	29.82	-24.12	-13	-11.12	Vertical	
3346.4	-50.24	4.02	29.82	-24.44	-13	-11.44	Horizontal	
208.8	-47.5	1.44	15.26	-33.69	-13	-20.69	Vertical	
131.6	-52.12	1.51	17.23	-36.40	-13	-23.40	Horizontal	
		Test Re	esults for Ch	annel 251/8	48.8 MHz			
1697.6	-47.98	2.80	27.42	-23.36	-13	-10.36	Vertical	
1697.6	-48.65	2.80	27.42	-24.03	-13	-11.03	Horizontal	
2546.4	-49.35	2.91	27.68	-24.58	-13	-11.58	Vertical	
2546.4	-49.98	2.91	27.68	-25.21	-13	-12.21	Horizontal	
3395.2	-46.17	4.02	29.80	-20.39	-13	-7.39	Vertical	
3395.2	-53.17	4.02	29.80	-27.39	-13	-14.39	Horizontal	
95.0	-45.88	1.74	16.46	-31.16	-13	-18.16	Vertical	
208.3	-50.76	1.68	16.21	-36.23	-13	-23.23	Horizontal	

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.

2. Absolute Level = SG Level- Cable Loss+ Antenna Gain





			GPR	S 850			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 128/82	4.2 MHz		
1648.4	-44.59	2.80	27.50	-19.89	-13	-6.89	Vertical
1648.4	-53.45	2.80	27.50	-28.75	-13	-15.75	Horizontal
2472.6	-52.73	2.91	27.80	-27.84	-13	-14.84	Vertical
2472.6	-52.13	2.91	27.80	-27.24	-13	-14.24	Horizontal
3296.8	-53.16	4.02	29.87	-27.31	-13	-14.31	Vertical
3296.8	-48.29	4.02	29.87	-22.44	-13	-9.44	Horizontal
154.8	-49.02	1.35	16.91	-33.46	-13	-20.46	Vertical
238.4	-46.79	1.59	17.39	-30.98	-13	-17.98	Horizontal
		Test Res	sults for Cha	nnel 189/83	6.4 MHz		
1673.2	-45.95	2.80	27.48	-21.27	-13	-8.27	Vertical
1673.2	-50.27	2.80	27.48	-25.59	-13	-12.59	Horizontal
2509.8	-47.71	2.91	27.70	-22.92	-13	-9.92	Vertical
2509.8	-53.9	2.91	27.70	-29.11	-13	-16.11	Horizontal
3346.4	-48.48	4.02	29.82	-22.68	-13	-9.68	Vertical
3346.4	-50.99	4.02	29.82	-25.19	-13	-12.19	Horizontal
110.1	-48.64	1.36	17.36	-32.64	-13	-19.64	Vertical
148.2	-51.02	1.32	15.19	-37.16	-13	-24.16	Horizontal
		Test Res	sults for Cha	nnel 251/84	8.8 MHz		
1697.6	-48.47	2.80	27.42	-23.85	-13	-10.85	Vertical
1697.6	-46.6	2.80	27.42	-21.98	-13	-8.98	Horizontal
2546.4	-53.36	2.91	27.68	-28.59	-13	-15.59	Vertical
2546.4	-51.32	2.91	27.68	-26.55	-13	-13.55	Horizontal
3395.2	-45.03	4.02	29.80	-19.25	-13	-6.25	Vertical
3395.2	-45.77	4.02	29.80	-19.99	-13	-6.99	Horizontal
198.1	-44.41	1.46	17.68	-28.19	-13	-15.19	Vertical
220.2	-44.9	1.31	15.79	-30.42	-13	-17.42	Horizontal

#### Remark:

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain



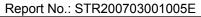


			EGPF	<b>?S</b> 850				
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
		Test Res	sults for Cha	nnel 128/824	4.2 MHz			
1648.4	-48.04	2.80	27.50	-23.34	-13	-10.34	Vertical	
1648.4	-47.12	2.80	27.50	-22.42	-13	-9.42	Horizontal	
2472.6	-44.04	2.91	27.80	-19.15	-13	-6.15	Vertical	
2472.6	-44.39	2.91	27.80	-19.50	-13	-6.50	Horizontal	
3296.8	-52.08	4.02	29.87	-26.23	-13	-13.23	Vertical	
3296.8	-46.06	4.02	29.87	-20.21	-13	-7.21	Horizontal	
116.4	-45.35	1.69	16.60	-30.44	-13	-17.44	Vertical	
166.1	-45.69	1.44	17.78	-29.34	-13	-16.34	Horizontal	
Test Results for Channel 189/836.4 MHz								
1673.2	-44.69	2.80	27.48	-20.01	-13	-7.01	Vertical	
1673.2	-46.78	2.80	27.48	-22.10	-13	-9.10	Horizontal	
2509.8	-44.78	2.91	27.70	-19.99	-13	-6.99	Vertical	
2509.8	-49.08	2.91	27.70	-24.29	-13	-11.29	Horizontal	
3346.4	-48.13	4.02	29.82	-22.33	-13	-9.33	Vertical	
3346.4	-53.49	4.02	29.82	-27.69	-13	-14.69	Horizontal	
160.1	-50.56	1.54	16.14	-35.97	-13	-22.97	Vertical	
246.5	-44.54	1.31	17.24	-28.61	-13	-15.61	Horizontal	
		Test Res	sults for Cha	nnel 251/84	8.8 MHz			
1697.6	-46.83	2.80	27.42	-22.21	-13	-9.21	Vertical	
1697.6	-52.24	2.80	27.42	-27.62	-13	-14.62	Horizontal	
2546.4	-53.36	2.91	27.68	-28.59	-13	-15.59	Vertical	
2546.4	-44.57	2.91	27.68	-19.80	-13	-6.80	Horizontal	
3395.2	-52.21	4.02	29.80	-26.43	-13	-13.43	Vertical	
3395.2	-49.06	4.02	29.80	-23.28	-13	-10.28	Horizonta	
272.1	-51.26	1.73	15.96	-37.03	-13	-24.03	Vertical	
163.9	-52.11	1.35	17.53	-35.93	-13	-22.93	Horizonta	

#### Remark:

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)





WCDMA Band V										
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
Test Results for Channel 4233/846.6MHz										
1693.2	-51.66	2.80	27.50	-26.96	-13	-13.96	Vertical			
1693.2	-45.42	2.80	27.50	-20.72	-13	-7.72	Horizontal			
2539.8	-51.09	2.91	27.80	-26.20	-13	-13.20	Vertical			
2539.8	-45.1	2.91	27.80	-20.21	-13	-7.21	Horizontal			
3386.4	-44.1	4.02	29.87	-18.25	-13	-5.25	Vertical			
3386.4	-47.58	4.02	29.87	-21.73	-13	-8.73	Horizontal			
264.3	-52.99	1.75	15.49	-39.25	-13	-26.25	Vertical			
209.9	-46.3	1.37	16.58	-31.09	-13	-18.09	Horizontal			
Test Results for Channel 4182/836.4MHz										
1672.8	-51.3	2.80	27.48	-26.62	-13	-13.62	Vertical			
1672.8	-48.78	2.80	27.48	-24.10	-13	-11.10	Horizontal			
2509.2	-49.21	2.91	27.70	-24.42	-13	-11.42	Vertical			
2509.2	-44.91	2.91	27.70	-20.12	-13	-7.12	Horizontal			
3345.6	-44.28	4.02	29.82	-18.48	-13	-5.48	Vertical			
3345.6	-44.77	4.02	29.82	-18.97	-13	-5.97	Horizontal			
255.8	-53.47	1.68	17.84	-37.31	-13	-24.31	Vertical			
129.8	-52.18	1.49	16.34	-37.32	-13	-24.32	Horizontal			
		Test Res	ults for Cha	nnel 4132/82	26.4MHz					
1652.8	-52.48	2.80	27.42	-27.86	-13	-14.86	Vertical			
1652.8	-50.1	2.80	27.42	-25.48	-13	-12.48	Horizontal			
2479.2	-53.96	2.91	27.68	-29.19	-13	-16.19	Vertical			
2479.2	-45.23	2.91	27.68	-20.46	-13	-7.46	Horizontal			
3305.6	-51.16	4.02	29.80	-25.38	-13	-12.38	Vertical			
3305.6	-49.62	4.02	29.80	-23.84	-13	-10.84	Horizontal			
135.6	-49.87	1.36	17.52	-33.71	-13	-20.71	Vertical			
190.6	-47.27	1.63	15.02	-33.88	-13	-20.88	Horizontal			

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#### Remark:

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain





<i>GSM</i> 1900									
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Re	sults for Cha	nnel 512/18	50.2MHz				
3700.4	-50.46	4.04	33.51	-20.99	-13	-7.99	Vertical		
3700.4	-50.7	4.04	33.51	-21.23	-13	-8.23	Horizontal		
5550.6	-50.54	5.24	35.84	-19.94	-13	-6.94	Vertical		
5550.6	-49.9	5.24	35.84	-19.30	-13	-6.30	Horizontal		
105.3	-49.36	1.40	15.14	-35.62	-13	-22.62	Vertical		
247.6	-51.61	1.45	17.54	-35.52	-13	-22.52	Horizontal		
Test Results for Channel 661/1880.0MHz									
3760	-44.3	4.04	33.56	-14.78	-13	-1.78	Vertical		
3760	-52.39	4.04	33.56	-22.87	-13	-9.87	Horizontal		
5640	-47.77	5.24	35.91	-17.10	-13	-4.10	Vertical		
5640	-44.14	5.24	35.91	-13.47	-13	-0.47	Horizontal		
187.9	-49.69	1.74	16.40	-35.03	-13	-22.03	Vertical		
86.7	-46.77	1.42	15.72	-32.46	-13	-19.46	Horizontal		
		Test Re	sults for Cha	innel 810/19	09.8MHz				
3819.6	-47.37	4.04	34.00	-17.41	-13	-4.41	Vertical		
3819.6	-47.12	4.04	34.00	-17.16	-13	-4.16	Horizontal		
5729.4	-44.27	5.24	36.04	-13.47	-13	-0.47	Vertical		
5729.4	-47.24	5.24	36.04	-16.44	-13	-3.44	Horizontal		
217.3	-44.85	1.67	17.51	-29.01	-13	-16.01	Vertical		
112.7 Remark <sup>:</sup>	-52.52	1.58	17.73	-36.37	-13	-23.37	Horizontal		

Remark:

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain





GPRS 1900										
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
		Test Re	sults for Cha	nnel 512/18	50.2MHz					
3700.4	-49.55	4.04	33.51	-20.08	-13	-7.08	Vertical			
3700.4	-48.51	4.04	33.51	-19.04	-13	-6.04	Horizontal			
5550.6	-47.23	5.24	35.84	-16.63	-13	-3.63	Vertical			
5550.6	-47.53	5.24	35.84	-16.93	-13	-3.93	Horizontal			
249.9	-53.31	1.66	17.06	-37.92	-13	-24.92	Vertical			
237.9	-47.91	1.34	15.54	-33.71	-13	-20.71	Horizontal			
		Test Re	sults for Cha	nnel 661/18	80.0MHz					
3760	-51.58	4.04	33.56	-22.06	-13	-9.06	Vertical			
3760	-52.23	4.04	33.56	-22.71	-13	-9.71	Horizontal			
5640	-49.34	5.24	35.91	-18.67	-13	-5.67	Vertical			
5640	-53.38	5.24	35.91	-22.71	-13	-9.71	Horizontal			
168.5	-45.25	1.33	16.18	-30.40	-13	-17.40	Vertical			
249.4	-48.03	1.60	17.99	-31.64	-13	-18.64	Horizontal			
		Test Re	sults for Cha	nnel 810/19	09.8MHz					
3819.6	-48.27	4.04	34.00	-18.31	-13	-5.31	Vertical			
3819.6	-47.68	4.04	34.00	-17.72	-13	-4.72	Horizontal			
5729.4	-48.64	5.24	36.04	-17.84	-13	-4.84	Vertical			
5729.4	-52.79	5.24	36.04	-21.99	-13	-8.99	Horizontal			
206.6	-45.92	1.65	17.27	-30.31	-13	-17.31	Vertical			
227.8	-46.41	1.39	15.49	-32.32	-13	-19.32	Horizontal			

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#### Remark:

1. We were tested all Configuration refer 3GPP TS134 121.

2. Absolute Level = SG Level- Cable Loss+ Antenna Gain





EGPRS 1900									
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Re	sults for Cha	nnel 512/18	50.2MHz				
3700.4	-44.87	4.04	33.51	-15.40	-13	-2.40	Vertical		
3700.4	-53.76	4.04	33.51	-24.29	-13	-11.29	Horizontal		
5550.6	-44.54	5.24	35.84	-13.94	-13	-0.94	Vertical		
5550.6	-45.19	5.24	35.84	-14.59	-13	-1.59	Horizontal		
224.9	-47.43	1.41	17.87	-30.97	-13	-17.97	Vertical		
105.4	-49.85	1.47	17.45	-33.88	-13	-20.88	Horizontal		
		Test Re	sults for Cha	nnel 661/18	80.0MHz				
3760	-53.86	4.04	33.56	-24.34	-13	-11.34	Vertical		
3760	-50.24	4.04	33.56	-20.72	-13	-7.72	Horizontal		
5640	-46.11	5.24	35.91	-15.44	-13	-2.44	Vertical		
5640	-45.1	5.24	35.91	-14.43	-13	-1.43	Horizontal		
110.0	-49.42	1.35	15.31	-35.47	-13	-22.47	Vertical		
231.5	-50.98	1.48	17.05	-35.41	-13	-22.41	Horizontal		
		Test Re	sults for Cha	nnel 810/19	09.8MHz				
3819.6	-45.49	4.04	34.00	-15.53	-13	-2.53	Vertical		
3819.6	-48.34	4.04	34.00	-18.38	-13	-5.38	Horizontal		
5729.4	-51.19	5.24	36.04	-20.39	-13	-7.39	Vertical		
5729.4	-51.12	5.24	36.04	-20.32	-13	-7.32	Horizontal		
156.0	-44.16	1.49	17.71	-27.94	-13	-14.94	Vertical		
144.9	-48.64	1.55	15.08	-35.11	-13	-22.11	Horizontal		

#### Remark:

1. We were tested all Configuration refer 3GPP TS134 121.

2. Absolute Level = SG Level- Cable Loss+ Antenna Gain





	WCDMA Band II										
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity				
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)					
Test Results for Channel 9262/1852.4MHz											
3704.8	-44.71	4.04	33.51	-15.24	-13	-2.24	Vertical				
3704.8	-47.59	4.04	33.51	-18.12	-13	-5.12	Horizontal				
5557.2	-45.2	5.24	35.84	-14.60	-13	-1.60	Vertical				
5557.2	-52.16	5.24	35.84	-21.56	-13	-8.56	Horizontal				
91.6	-50.75	1.66	17.47	-34.94	-13	-21.94	Vertical				
104.4	-47.01	1.38	16.18	-32.21	-13	-19.21	Horizontal				
		Test Re	esults for Cha	annel 9400/1	880MHz						
3760	-48.8	4.04	33.56	-19.28	-13	-6.28	Vertical				
3760	-52.32	4.04	33.56	-22.80	-13	-9.80	Horizontal				
5640	-47.91	5.24	35.91	-17.24	-13	-4.24	Vertical				
5640	-46.95	5.24	35.91	-16.28	-13	-3.28	Horizontal				
121.2	-46.67	1.38	16.34	-31.71	-13	-18.71	Vertical				
167.8	-52.7	1.34	16.03	-38.01	-13	-25.01	Horizontal				
		Test Res	sults for Cha	nnel 9538/19	07.6MHz						
3815.2	-48.01	4.04	34.00	-18.05	-13	-5.05	Vertical				
3815.2	-52.55	4.04	34.00	-22.59	-13	-9.59	Horizontal				
5722.8	-48.02	5.24	36.04	-17.22	-13	-4.22	Vertical				
5722.8	-53.04	5.24	36.04	-22.24	-13	-9.24	Horizontal				
135.9	-46.28	1.51	15.52	-32.27	-13	-19.27	Vertical				
247.5	-51.97	1.32	17.18	-36.12	-13	-23.12	Horizontal				

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.

2. Absolute Level = SG Level- Cable Loss+ Antenna Gain



#### 7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

#### 7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

#### 7.2.2 Conformance Limit

The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

#### 7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements Please refer to the section 7.1.4 in this report.

#### 7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

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

ERP/EIRP = SGLevel -Pcl +Ga

where:

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

SGLevel = Signal generator output power or PSD, in dBm or dBW;

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

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.<sup>2</sup>

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

# NTEKJLW



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

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Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

	GSM/GPRS/EGPRS	UMTS band/ CDMA2000
Span	500KHz	10MHz
RBW	10KHz	300KHz
VBW	30KHz	1MHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100



#### 7.2.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	120 (	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen

#### Effective Radiated Power

	Radiated Power (ERP) for GSM850						
Frequency	Frequency	SG	Pcl	Ga Antenna	Correction	ERP	ERP
Polarizatio	Polarization	Level		Gain			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	Н	15.09	2.11	23.84	2.15	34.67	2.930893
836.6	Н	15.78	2.13	23.15	2.15	34.65	2.917427
848.8	Н	15.97	2.13	23.06	2.15	34.75	2.985383
824.2	V	14.69	2.11	23.11	2.15	33.54	2.259436
836.6	V	14.27	2.13	23.07	2.15	33.06	2.023019
848.8	V	14.22	2.13	23.25	2.15	33.19	2.084491

Radiated Power (ERP) for GPRS850							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	Н	15.06	2.11	23.84	2.15	34.64	2.910717
836.6	Н	15.77	2.13	23.15	2.15	34.64	2.910717
848.8	Н	15.98	2.13	23.06	2.15	34.76	2.992265
824.2	V	14.20	2.11	23.11	2.15	33.05	2.018366
836.6	V	14.95	2.13	23.07	2.15	33.74	2.365920
848.8	V	13.05	2.13	23.25	2.15	32.02	1.592209



Radiated Power (ERP) for EGPRS850							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	Н	7.47	2.11	23.84	2.15	27.05	0.506991
836.6	Н	8.85	2.13	23.15	2.15	27.72	0.591562
848.8	Н	9.10	2.13	23.06	2.15	27.88	0.613762
824.2	V	8.37	2.11	23.11	2.15	27.22	0.527230
836.6	V	7.34	2.13	23.07	2.15	26.13	0.410204
848.8	V	8.79	2.13	23.25	2.15	27.76	0.597035

	Radiated Power (ERP) for UMTS band V						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
826.4	Н	4.83	2.11	23.84	2.15	24.41	0.276058
835	Н	5.51	2.13	23.15	2.15	24.38	0.274157
846.6	Н	5.70	2.13	23.06	2.15	24.48	0.280543
826.4	V	5.28	2.11	23.11	2.15	24.13	0.258821
835	V	6.09	2.13	23.07	2.15	24.88	0.307610
846.6	V	6.13	2.13	23.25	2.15	25.10	0.323594



	Radiated Power (E.I.R.P) for GSM1900					
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1850.2	Н	7.43	3.76	28.24	31.91	1.552387
1880	Н	7.76	3.91	28.22	32.07	1.610646
1909.8	Н	7.78	3.93	28.20	32.05	1.603245
1850.2	V	6.49	3.76	27.32	30.05	1.011579
1880	V	6.11	3.91	27.33	29.53	0.897429
1909.8	V	7.55	3.93	27.31	30.93	1.238797

	Radiated Power (E.I.R.P) for GPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1850.2	Н	7.46	3.76	28.24	31.94	1.563148	
1880	Н	7.80	3.91	28.22	32.11	1.625549	
1909.8	Н	7.82	3.93	28.20	32.09	1.618080	
1850.2	V	6.70	3.76	27.32	30.26	1.061696	
1880	V	7.01	3.91	27.33	30.43	1.104079	
1909.8	V	7.35	3.93	27.31	30.73	1.183042	

	Radiated Power (E.I.R.P) for EGPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1850.2	Н	3.87	3.76	28.24	28.35	0.683912	
1880	Н	4.46	3.91	28.22	28.77	0.753356	
1909.8	Н	3.91	3.93	28.20	28.18	0.657658	
1850.2	V	3.68	3.76	27.32	27.24	0.529663	
1880	V	4.16	3.91	27.33	27.58	0.572796	
1909.8	V	4.26	3.93	27.31	27.64	0.580764	



	Radiated Power (E.I.R.P) for UMTS band II						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1852.4	Н	0.42	3.76	28.24	24.90	0.309030	
1880	Н	0.59	3.91	28.22	24.90	0.309030	
1907.6	Н	0.87	3.93	28.20	25.14	0.326588	
1852.4	V	1.11	3.76	27.32	24.67	0.293089	
1880	V	1.26	3.91	27.33	24.68	0.293765	
1907.6	V	2.10	3.93	27.31	25.48	0.353183	

Note:

SG Level= Signal generator output Pcl= cable loss Ga= Antenna Gain Peak EIRP(dBm)= SGLevel -Pcl +Ga ERP(dBm)=EIRP-2.15



#### 7.3 CONDUCTED OUTPUT POWER

#### 7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2) and FCC Part 24.232(c) and FCC KDB 971168 D01 v03r01 Section 5.2

#### 7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

For CDMA2000 Power: Maxmum output power is verified on the Low,Middle and High channels according to procedures in section 4.4.5.2.of 3GPP2 C.S0011/TIA-98-E for 1Xrtt, section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rel.0 and section 4.3.4 of 3GPP2 C.S0033-A for Rev.A.

#### 7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set EBV at maximum average power by base station sines Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW  $\geq$  3 × RBW.

Number of points in sweep  $\ge 2 \times$  span / RBW. (This gives bin-to-bin spacing  $\le$  RBW/2, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation. Measure and record the results in the test report.



#### 7.3.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	20 °C	Relative Humidity:	48%
Fest Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
	Test data reference	attachment	



#### 7.4 FREQUENCY STABILITY

#### 7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC Part 24.235 and FCC KDB 971168 D01 Section 9.0

#### 7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$ ppm) of the center frequency.

#### 7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR\_MAX\_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

#### 7.4.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	<b>20</b> °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS			
-			



Frequency Error Against Voltage for GSM 850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.2	7.8	0.009326	
3.8	8.87	0.010605	
4.4	7.46	0.008919	

Frequency Error Against Temperature for GSM 850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	8.48	0.010139	
-20	9.05	0.010820	
-10	9.7	0.011597	
0	6.82	0.008154	
10	6.42	0.007676	
20	8.1	0.009684	
30	9.43	0.011275	
40	7.96	0.009517	
50	12.45	0.014885	

Frequency Error Against Voltage for GPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.2	8.78	0.010497	
3.8	9.39	0.011227	
4.4	9.72	0.011621	

Frequency Error Against Temperature for GPRS850 band(Mid CH)			
Temperature (℃)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	8.56	0.010234	
-20	6.32	0.007556	
-10	6.69	0.007999	
0	6.73	0.008046	
10	7.45	0.008907	
20	6.92	0.008274	
30	8.65	0.010342	
40	8.63	0.010318	
50	11.76	0.014060	



Frequency Error Against Voltage for EGPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.2	9.02	0.010784	
3.8	6.27	0.007496	
4.4	8.25	0.009864	

Frequency Error Against Temperature for EGPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	8.8	0.010521	
-20	6.36	0.007604	
-10	6.48	0.007747	
0	6.54	0.007819	
10	6.79	0.008118	
20	7.78	0.009302	
30	8.66	0.010354	
40	6.06	0.007245	
50	11.99	0.014335	

Note:

- 1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.2V; Maximum Voltage =4.4V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Frequency Error Against Voltage for UMTS band V(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.2	-16.73	-0.020002	
3.8	-15.68	-0.018747	
4.4	-18.07	-0.021604	

Frequency Error Against Temperature for UMTS band V (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-17.14	-0.020493
-20	-18.48	-0.022095
-10	-19.29	-0.023063
0	-15.4	-0.018412
10	-15.24	-0.018221
20	-17.02	-0.020349
30	-16.59	-0.019835
40	-17.92	-0.021425
50	-18.85	-0.022537

Note:

1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.2V; Maximum Voltage =4.4V

2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Frequency Error Against Voltage for GSM 1900 band (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.2	20.12	0.010702	
3.8	19.46	0.010351	
4.4	17.64	0.009383	

Frequency Error Against Temperature for GSM 1900 band (Mid CH)			
Temperature (° $^\circ$ )	Frequency Error (Hz)	Frequency Error (ppm)	
-30	22.99	0.012229	
-20	16.91	0.008995	
-10	16.28	0.008660	
0	19.36	0.010298	
10	20.82	0.011074	
20	18.7	0.009947	
30	19.79	0.010527	
40	19.36	0.010298	
50	20.32	0.010809	

Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.2	19.41	0.010324	
3.8	19.15	0.010186	
4.4	19.45	0.010346	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	19.19	0.010207	
-20	19.6	0.010426	
-10	17.06	0.009074	
0	19.84	0.010553	
10	16.08	0.008553	
20	20.31	0.010803	
30	20.15	0.010718	
40	18.18	0.009670	
50	22.79	0.012122	



Frequency Error Against Voltage for EGPRS1900 band (Mid CH)				
Voltage (V)	Voltage (V)         Frequency Error (Hz)         Frequency Error (ppm)			
3.2	18.06	0.009606		
3.8	20.55	0.010931		
4.4	18.47	0.009824		

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	17.24	0.009170	
-20	19.13	0.010176	
-10	18.42	0.009798	
0	16.41	0.008729	
10	20.54	0.010926	
20	18.97	0.010090	
30	18.29	0.009729	
40	18.76	0.009979	
50	19.77	0.010516	

Note:

- 1.
- Normal Voltage = 3.8V; Battery End Point (BEP) = 3.2V; Maximum Voltage =4.4V The frequency fundamental emissions stay within the authorized frequency block based on the 2. frequency deviation measured is small.



Frequency Error Against Voltage for UMTS band II (Mid CH)				
Voltage (V)	7) Frequency Error (Hz) Frequency Error (ppm)			
3.2	-15.55	-0.008271		
3.8	-17.37	-0.009239		
4.4	-16.41	-0.008729		

Frequency Error Against Temperature for UMTS band II (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-15.24	-0.008106	
-20	-15.49	-0.008239	
-10	-15.86	-0.008436	
0	-16.05	-0.008537	
10	-16.08	-0.008553	
20	-19.26	-0.010245	
30	-16.89	-0.008984	
40	-19.68	-0.010468	
50	-22.3	-0.011862	

Note:

- 1.
- Normal Voltage = 3.8V; Battery End Point (BEP) = 3.2V; Maximum Voltage =4.4V The frequency fundamental emissions stay within the authorized frequency block based on the 2. frequency deviation measured is small.



#### 7.5 PEAK-TO-AVERAGE RATIO

#### 7.5.1 Applicable Standard

According to FCC 22.913 and FCC 24.232(d) and FCC KDB 971168 D01 Section 5.7.1

#### 7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

#### 7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

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

a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

b) Set resolution/measurement bandwidth ≥ 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,

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.

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

#### 7.5.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS			•
<u> </u>			

Test data reference attachment



#### 7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

#### 7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC Part 24E and FCC KDB 971168 D01 Section 4.0

#### 7.6.2 Conformance Limit

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

#### 7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 4.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



#### 7.6.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS	Results: PASS		

Test data reference attachment:



#### 7.7 CONDUCTED BAND EDGE

#### 7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and 24.238(a) and FCC KDB 971168 D01 Section6.0

#### 7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P) dB$ .

#### 7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm.

#### 7.7.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS			

Test data reference attachment:



#### 7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

#### 7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section6.0

#### 7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P) dB$ . It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB) = -13dBm.

#### 7.8.6 Test Results

EUT:	Tablet	Model No.:	T1011
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS			

Test data reference attachment:

END OF REPORT