# **FCC RF Test Report**

APPLICANT : Elo Touch Solutions, Inc.

**EQUIPMENT**: Mobile POS

BRAND NAME : ELO or

MODEL NAME : EMC0600SC FCC ID : RBWEMC0600C

STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L) CLASSIFICATION : PCS Licensed Transmitter (PCB)

TEST DATE(S) : Nov. 25, 2021

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: Alex Wang / Manager

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People's Republic of China

Sporton International Inc. (Kunshan)

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Report Version : Rev. 01

Report No.: FG142804-04A

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## **REVISION HISTORY**

Report No.: FG142804-04A

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG142804-04A	Rev. 01	Initial issue of report	Jan. 21, 2022

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### **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5) Effective Radiated Power		< 7 Watts	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 41.73 dB at 7524.000 MHz

#### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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### 1 General Description

# 1.1 Applicant

**Elo Touch Solutions, Inc.** 

670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, United States

#### 1.2 Manufacturer

**Elo Touch Solutions, Inc.** 

670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, United States

### 1.3 Product Feature of Equipment Under Test

	Product Feature				
Equipment	Mobile POS				
Brand Name	ELO or <b>[i]</b>				
Model Name	EMC0600SC				
FCC ID	RBWEMC0600C				
IMEI Code	Conducted: N/A Radiation:N/A				
HW Version	A01				
SW Version	5.000.009.0100+p				
EUT Stage	Production Unit				

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#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. This is a variant report for EMC0600SC. The change note could be referred to the Class II permissive change letter which is exhibit separately. Based on the similarity between current and previous project, only the related test cases from original test report (Sporton Report Number FG142804-01A) were verified for the differences.

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### 1.4 Product Specification of Equipment Under Test

Standards	Standards-related Product Specification					
	WCDMA:					
Ty Francisco	Band V:	824 MHz ~ 849 MHz				
Tx Frequency	Band II:	1850 MHz ~ 1910 MHz				
	Band IV:	1710 MHz ~ 1755 MHz				
	WCDMA:					
Dy Fraguency	Band V:	869 MHz ~ 894 MHz				
Rx Frequency	Band II:	1930 MHz ~ 1990 MHz				
	Band IV:	2110 MHz ~ 2155 MHz				
	WCDMA:					
Maximum Quitnut Bayyar ta Antanna	Band V:	21.42 dBm				
Maximum Output Power to Antenna	Band II:	21.14 dBm				
	Band IV:	21.31 dBm				
Antenna Type	PIFA Anten	na				
	Cellular Baı	nd: 0.63 dBi				
Antenna Gain	PCS Band:	1.5 dBi				
	AWS Band: 1.92 dBi					
	WCDMA : E	BPSK				
	HSDPA/DC	-HSDPA : QPSK				
Type of Modulation	HSUPA: QPSK					
	HSPA+: 16QAM (16QAM uplink is not supported)					
	DC-HSDPA	: 64QAM				

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### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6 Maximum ERP/EIRP

FCC Rule	Frequency Band	Frequency Band (MHz)		Maximum ERP/EIRP (W)
Part 22H	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0977
Part 24E	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.1837
Part 27L	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.2104

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### 1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Test Firm	Sporton International Inc. (Kunshan)				
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone				
Test Site Location	Jiangsu Province 215300 People's Republic of China				
Test Site Location	TEL: +86-512-57900158				
	FAX: +86-512-57900958				
	Sporton Site No.	FCC Designation No.	FCC Test Firm		
Test Site No.	Sporton Site No.	rec besignation No.	Registration No.		
	03CH04-KS TH01-KS	CN1257	314309		

#### 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

### 1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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### 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

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

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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 9000 MHz for WCDMA Band V.
- 2. 30 MHz to 18000 MHz for WCDMA Band IV.
- 3. 30 MHz to 19100 MHz for WCDMA Band II.

All modes and data rates and positions were investigated.

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

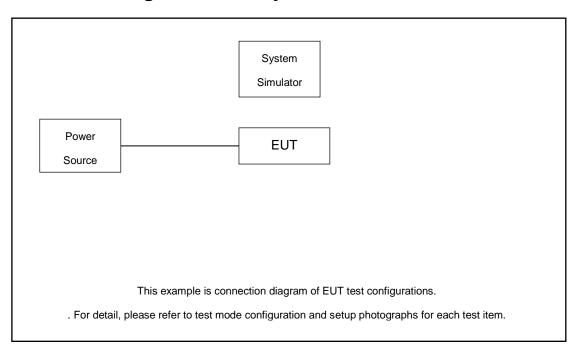
Test Modes						
Band	Radiated TCs	Conducted TCs				
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				

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### 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

### 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

### 2.4 Frequency List of Low/Middle/High Channels

	Frequency List								
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest					
WCDMA	Channel	4132	4182	4233					
Band V	Frequency	826.4	836.4	846.6					
WCDMA	Channel	9262	9400	9538					
Band II	Frequency	1852.4	1880.0	1907.6					
WCDMA	Channel	1312	1413	1513					
Band IV	Frequency	1712.4	1732.6	1752.6					

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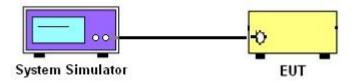
### 3 Conducted Test Result

### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

### 3.2.1 Conducted Output Power



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

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#### 3.4 Conducted Output Power and ERP/EIRP

#### 3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , ERP = EIRP - 2.15, where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

L<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

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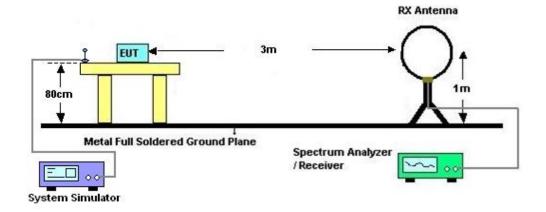
### 4 Radiated Test Items

### 4.1 Measuring Instruments

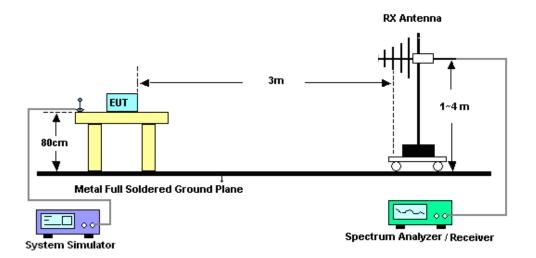
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz

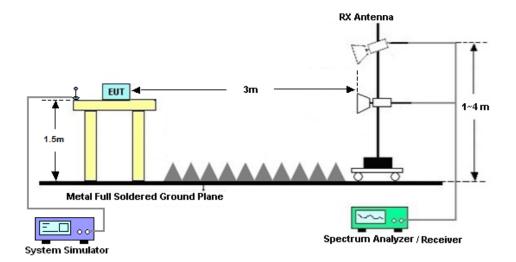


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#### 4.2.3 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

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#### 4.4 Field Strength of Spurious Radiation Measurement

#### 4.4.1 Description of Field Strength of Spurious Radiated Measurement

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.

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#### 4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Nov. 25, 2021	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Nov. 25, 2021	Aug. 25, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Nov. 25, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Nov. 25, 2021	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Nov. 25, 2021	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Nov. 25, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Nov. 25, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Nov. 25, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Nov. 25, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Nov. 25, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 12, 2021	Nov. 25, 2021	Oct. 11, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 25, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 25, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 25, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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### 6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.3 dB
Confidence of 95% (U = 2Uc(y))	3.3 UB

#### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	2 040
Confidence of 95% (U = 2Uc(y))	2.8dB

----- THE END -----

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# **Appendix A. Test Results of Conducted Test**

# Conducted Output Power(Average power) and ERP/EIRP

	Band		WCDMA II				
	TX Channel	9262	9400	9538	EIRP(W)		
	Rx Channel	9662	9800	9938			
Fre	equency (MHz)	1852.4	1880	1907.6	L M H		Н
3GPP Rel 99	AMR 12.2Kbps	21.02	21.12	21.03	0.1786	0.1828	0.1791
3GPP Rel 99	RMC 12.2Kbps	21.03	21.14	21.05	0.1791	0.1837	0.1799
3GPP Rel 6	HSDPA Subtest-1	20.27	20.22	20.04	0.1503	0.1486	0.1426
3GPP Rel 6	HSDPA Subtest-2	20.32	19.88	20.10	0.1521	0.1374	0.1445
3GPP Rel 6	HSDPA Subtest-3	19.60	19.68	19.53	0.1288	0.1312	0.1268
3GPP Rel 6	HSDPA Subtest-4	19.59	19.69	19.53	0.1285	0.1315	0.1268
3GPP Rel 8	DC-HSDPA Subtest-1	20.03	19.87	19.85	0.1422 0.1371		0.1365
3GPP Rel 8	DC-HSDPA Subtest-2	20.16	19.92	20.13	0.1466	0.1387	0.1455
3GPP Rel 8	DC-HSDPA Subtest-3	19.67	19.65	19.51	0.1309	0.1303	0.1262
3GPP Rel 8	DC-HSDPA Subtest-4	19.53	19.51	19.54	0.1268	0.1262	0.1271
3GPP Rel 6	HSUPA Subtest-1	20.06	20.01	20.09	0.1432	0.1416	0.1442
3GPP Rel 6	HSUPA Subtest-2	18.00	17.93	18.07	0.0891	0.0877	0.0906
3GPP Rel 6	HSUPA Subtest-3	19.16	19.02	19.13	0.1164	0.1127	0.1156
3GPP Rel 6	HSUPA Subtest-4	18.00	18.18	18.15	0.0891	0.0929	0.0923
3GPP Rel 6	HSUPA Subtest-5	20.12	20.35	20.15	0.1452	0.1531	0.1462

	Band		WCDMA IV				
	TX Channel	1312	1413	1513	EIRP(W)		
	Rx Channel	1537	1638	1738			
	Frequency (MHz)	1712.4	1732.6	1752.6	L M H		
3GPP Rel 99	AMR 12.2Kbps	21.27	21.30	21.19	0.2084	0.2099	0.2046
3GPP Rel 99	RMC 12.2Kbps	21.30	21.31	21.21	0.2099	0.2104	0.2056
3GPP Rel 6	HSDPA Subtest-1	19.27	19.25	19.46	0.1315	0.1309	0.1374
3GPP Rel 6	HSDPA Subtest-2	19.24	19.31	19.41	0.1306 0.1327		0.1358
3GPP Rel 6	HSDPA Subtest-3	18.85	18.94	18.90	0.1194	0.1219	0.1208
3GPP Rel 6	HSDPA Subtest-4	18.93	18.81	18.90	0.1216 0.1183		0.1208
3GPP Rel 8	DC-HSDPA Subtest-1	19.25	19.31	19.40	0.1309 0.1327 0.1		0.1355
3GPP Rel 8	DC-HSDPA Subtest-2	19.44	19.17	19.38	0.1368 0.1285 (		0.1349
3GPP Rel 8	DC-HSDPA Subtest-3	18.81	18.94	18.93	0.1183	0.1219	0.1216
3GPP Rel 8	DC-HSDPA Subtest-4	18.76	18.80	18.85	0.1169	0.1180	0.1194
3GPP Rel 6	HSUPA Subtest-1	19.38	19.39	19.29	0.1349	0.1352	0.1321
3GPP Rel 6	HSUPA Subtest-2	17.37	17.38	17.42	0.0849	0.0851	0.0859
3GPP Rel 6	HSUPA Subtest-3	18.30	18.47	18.33	0.1052	0.1094	0.1059
3GPP Rel 6	HSUPA Subtest-4	17.44	17.52	17.50	0.0863	0.0879	0.0875
3GPP Rel 6	HSUPA Subtest-5	19.43	19.30	19.41	0.1365	0.1324	0.1358

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	Band		WCDMA V				
	TX Channel	4132	4182	4233	ERP(W)		
	Rx Channel	4357	4407	4458			
	Frequency (MHz)	826.4	836.4	846.6	L M H		
3GPP Rel 99	AMR 12.2Kbps	21.34	21.31	21.38	0.0959	0.0953	0.0968
3GPP Rel 99	RMC 12.2Kbps	21.35	21.42	21.40	0.0962	0.0977	0.0973
3GPP Rel 6	HSDPA Subtest-1	20.50	20.65	20.54	0.0791	0.0818	0.0798
3GPP Rel 6	HSDPA Subtest-2	20.77	20.73	20.48	0.0841	0.0834	0.0787
3GPP Rel 6	HSDPA Subtest-3	20.11	20.13	20.20	0.0723	0.0726	0.0738
3GPP Rel 6	HSDPA Subtest-4	20.06	20.14	20.04	0.0714	0.0728	0.0711
3GPP Rel 8	DC-HSDPA Subtest-1	20.61	20.68	20.46	0.0811 0.0824 0.0		0.0783
3GPP Rel 8	DC-HSDPA Subtest-2	20.55	20.76	20.54	0.0800	0.0839	0.0798
3GPP Rel 8	DC-HSDPA Subtest-3	20.29	20.19	20.03	0.0753	0.0736	0.0710
3GPP Rel 8	DC-HSDPA Subtest-4	19.95	19.95	20.08	0.0697	0.0697	0.0718
3GPP Rel 6	HSUPA Subtest-1	20.48	20.82	20.51	0.0787	0.0851	0.0793
3GPP Rel 6	HSUPA Subtest-2	18.59	18.57	18.50	0.0509	0.0507	0.0499
3GPP Rel 6	HSUPA Subtest-3	19.52	19.72	19.72	0.0631	0.0661	0.0661
3GPP Rel 6	HSUPA Subtest-4	18.42	18.93	18.60	0.0490	0.0551	0.0511
3GPP Rel 6	HSUPA Subtest-5	20.49	20.78	20.42	0.0789	0.0843	0.0776

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# **Appendix B. Test Results of Radiated Test**

# **Radiated Spurious Emission**

	WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1672	-66.10	-13	-53.10	-73.07	1.58	10.70	Н		
	2510	-61.74	-13	-48.74	-69.99	2.102	12.50	Н		
Middle	3348	-61.39	-13	-48.39	-70.28	2.856	13.90	Н		
Middle	1672	-64.73	-13	-51.73	-71.70	1.58	10.70	V		
	2510	-60.97	-13	-47.97	-69.22	2.10	12.50	V		
	3348	-61.18	-13	-48.18	-70.07	2.86	13.90	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	WCDMA Band II(RMC 12.2Kbps)										
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)			
	3759	-57.44	-13	-44.44	-69.70	2.64	14.90	Н			
	5640	-56.27	-13	-43.27	-68.13	2.94	14.80	Н			
Middle	7524	-54.74	-13	-41.74	-64.51	3.39	13.16	Н			
Middle	3759	-58.05	-13	-45.05	-70.31	2.64	14.90	V			
	5640	-56.83	-13	-43.83	-68.69	2.94	14.80	V			
	7524	-54.73	-13	-41.73	-64.50	3.39	13.16	V			

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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