## **TEST REPORT**

**Reference No.** ..... : WTS16S0961021-3E V1

FCC ID ..... : 2AJVK-SP4514

Applicant...... : Foto Electric Supply Co., INC.

Address...... 1 Rewe St. Brooklyn, New York, 11211, USA

Manufacturer ...... : Foto Electric Supply Co., INC.

Address...... 1 Rewe St. Brooklyn, New York, 11211, USA

Product Name...... : Smart Phone

Model No...... : SP4514, CBP4154

Brand.....: SLIDE, COBY

Standards..... FCC CFR47 Part 22 Subpart H: 2015 FCC CFR47 Part 24 Subpart E: 2015

Date of Receipt sample .... Sep. 19, 2016

Test Result..... Pass

#### Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## Prepared By:

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## 2 Laboratories Introduction

Waltek Services Test Group Ltd is a professional third-party testing and certification organization with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by CNAS (China National Accreditation Service for Conformity Assessment) AQSIQ, CMA and IECEE for CBTL. Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CPSC(Consumer Product Safety Commission), CEC(California energy efficiency), IC(Industry Canada) and ELI(Efficient Lighting Initiative). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as UL, Intertek(ETL-SEMKO), CSA, TÜV Rheinland, TÜV SÜD, etc.



Waltek Services Test Group Ltd. is one of the largest and the most comprehensive third party testing organizations in China, our headquarter located in Shenzhen and have branches in Foshan, Dongguan, Zhongshan, Suzhou,Ningbo and Hong Kong, Our test capability covered four large fields: safety test. ElectroMagnetic Compatibility(EMC), reliablity and energy performance, Chemical test. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

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## 4 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS16S0961021- 3E	Sep. 19, 2016	Sep. 20, 2016 -Nov. 08, 2016	Nov. 09, 2016	original	-	Replaced
WTS16S0961021- 3E V1	Sep. 19, 2016 Nov. 08,		Dec. 02, 2016	Version 1	Updated	Valid

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#### **General Information** 5

#### 5.1 General Description of E.U.T.

Product Name: **Smart Phone** 

SP4514, CBP4154 Model No.:

Model Description: Only the model names and brand names are different.

GSM 850/900/1800/1900MHz GSM Band(s):

12 GPRS/EGPRS Class:

FDD Band II/ V WCDMA Band(s):

FDD Band 2/4/5/7/17 LTE Band(s):

2.4G-802.11b/g/n HT20/n HT40 Wi-Fi Specification:

Bluetooth v4.0 with BLE Bluetooth Version:

Support GPS:

NFC: N/A

Y376\_MB\_V1 Hardware Version:

Y3764.DM.V345.US.V1.SMT.20160824 Software Version:

Highest frequency

(Exclude Radio):

26MHz

Storage Location: Internal Storage

This EUT has two SIM card slots, and use same one RF module. We

Note: found that RF parameters are the same, when we insert the card 1 and

card 2. So we usually performed the test under main card slot 1.

#### Details of E.U.T. 5.2

GSM/GPRS/EDGE 850: 824~849MHz Operation Frequency:

PCS/GPRS/EDGE 1900: 1850~1910MHz

WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz LTE Band 2: 1850~1910MHz LTE Band 4: 1710~1755MHz LTE Band 5: 823~850MHz LTE Band 7: 2500-2570MHz LTE Band 17: 704-716MHz

WiFi:

802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz Bluetooth: 2402~2480MHz

GSM 850: 32.61dBm Max. RF output power:

PCS1900: 29.85dBm

WCDMA Band II: 22.63dBm

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WCDMA Band V: 22.42dBm

LTE Band 2: 22.93dBm

LTE Band 4: 23.83dBm

LTE Band 5: 23.68dBm

LTE Band 7: 23.89dBm

LTE Band 17: 23.74dBm

WiFi(2.4G): 9.48dBm Bluetooth: 5.91dBm

Type of Modulation: GSM,GPRS: GMSK

EDGE: GMSK, 8PSK

WCDMA: BPSK

LTE: QPSK, 16QAM

WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK

Antenna installation: GSM/WCDMA/LTE: internal permanent antenna

WiFi/Bluetooth: internal permanent antenna

Antenna Gain: GSM 850: 0.5dBi

PCS1900: 1.0dBi

WCDMA Band II: 1.0dBi

WCDMA Band V: 0.5dBi

LTE Band 2: 1.0dBi

LTE Band 4: 0.8dBi

LTE Band 5: 0.5dBi

LTE Band 7: 1.0dBi

LTE Band 17: 0.6dBi

WiFi(2.4G): 1.0dBi

Bluetooth: 1.0dBi

Technical Data: Battery DC 3.7V, 1700mAh

DC 5V, 1.0A, charging from adapter

(Adapter Input: 100-240V~50/60Hz 0.2A

Adapter: Manufacture: XINYU EAGLETRON ELECTRONIC CO.LTD.

Model No.: SWN006S050100U1

Type of Emission: GSM850: 247KGXW, GPRS850: 245KGXW,

EGPRS850: 257KG7W

PCS1900: 246KGXW, GPRS1900: 246KGXW,

EGPRS1900: 258KG7W

WCDMA850: 4M23F9W, WCDMA1900: 4M23F9W

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#### 5.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by

performing full tests, the worst data were recorded and reported.

Support Band	Test Mode	Channel Frequency	Channel Number
		824.2 MHz	128
GSM 850	GSM/GPRS/EDGE	836.6 MHz	190
		848.8 MHz	251
		1850.2 MHz	512
PCS 1900	GSM/GPRS/EDGE	1880.0 MHz	661
		1909.8 MHz	810
		826.4 MHz	4132
WCDMA Band V	WCDMA/HSUPA/HSDPA	836.6 MHz	4183
		846.6 MHz	4233
		1852.4MHz	9262
WCDMA Band II	WCDMA/HSUPA/HSDPA	1880.0MHz	9400
		1907.6MHz	9538
Remark: All mode(s	) were tested and the worst data	was recorded.	

## 5.4 Test Facility

The test facility has a test site registered with the following organizations:

#### • IC – Registration No.: 7760A

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2015.

#### FCC Test Site 1# Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

## FCC Test Site 2# Registration No.: 328995

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory 'has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

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## 6 Test Summary

Test Items	Test Requirement	Result			
	2.1046				
RF Output Power	22.913 (a)	PASS			
	24.232 (c)				
Peak-to-Average Ratio	24.232 (d)	PASS			
	2.1049				
Bandwidth	22.905	PASS			
Dariuwiutii	22.917	PASS			
	24.238				
	2.1051				
Spurious Emissions at Antenna Terminal	us Emissions at Antenna Terminal 22.917 (a)				
	24.238 (a)				
	2.1053				
Field Strength of Spurious Radiation	22.917 (a)	PASS			
	24.238 (a)				
Out of band emission, Band Edge	22.917 (a)	PASS			
Out of barid effission, barid Edge	24.238 (a)	1 A33			
	2.1055				
Frequency Stability	22.355	PASS			
	24.235				
Maximum Permissible Exposure	1.1307	PASS			
(SAR)	2.1093	FASS			

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## 7 Equipment Used during Test

## 7.1 Equipments List

Conducted Emissions Test Site 1#										
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date				
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.12,2016	Sep.11,2017				
2.	LISN	R&S	ENV216	101215	Sep.12,2016	Sep.11,2017				
3.	Cable	Тор	TYPE16(3.5M)	-	Sep.12,2016	Sep.11,2017				
Condu	cted Emissions Test S	Site 2#								
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date				
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.12,2016	Sep.11,2017				
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.12,2016	Sep.11,2017				
3.	Limiter	York	MTS-IMP-136	261115-001- 0024	Sep.12,2016	Sep.11,2017				
4.	Cable	LARGE	RF300	-	Sep.12,2016	Sep.11,2017				
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions Test site	1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date				
1	Spectrum Analyzer	R&S	FSP	100091	Apr.29, 2016	Apr.28, 2017				
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Apr.09,2016	Apr.08,2017				
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.09,2016	Apr.08,2017				
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	Sep.12,2016	Sep.11,2017				
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.09,2016	Apr.08,2017				
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.09,2016	Apr.08,2017				
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.13,2016	Apr.12,2017				
8	Coaxial Cable (above 1GHz)	Тор	1GHz-25GHz	EW02014-7	Apr.13,2016	Apr.12,2017				
9	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.13,2016	Apr.12,2017				
10	Signal Generator	R&S	SMR20	100046	Sep.12,2016	Sep.11,2017				
11	Smart Antenna	SCHWARZBECK	HA08	-	Apr.09,2016	Apr.08,2017				
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions Test site	2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date				

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1	Test Receiver	R&S	ESCI	101296	Apr.13,2016	Apr.12,2017				
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.09,2016	Apr.08,2017				
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Apr.13,2016	Apr.12,2017				
4	Cable	HUBER+SUHNER	CBL2	525178	Apr.13,2016	Apr.12,2017				
RF Cor	RF Conducted Testing									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date				
4	EMC Analyzer				0 10 00 10	_				
1.	(9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.12,2016	Sep.11,2017				
2.	_	Agilent R&S	E7405A FSL6	MY45114943 100959	Sep.12,2016 Sep.12,2016	Sep.11,2017 Sep.11,2017				
	(9k~26.5GHz) Spectrum Analyzer				•					

## 7.2 Measurement Uncertainty

Parameter	Uncertainty			
Radio Frequency	± 1 x 10 <sup>-6</sup>			
RF Power	± 1.0 dB			
RF Power Density	± 2.2 dB			
Radiated Spurious Emissions test	± 5.03 dB (Bilog antenna 30M~1000MHz)			
Radiated Spurious Effissions test	± 5.47 dB (Horn antenna 1000M~25000MHz)			
Conducted Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)			
Confidence interval: 95%. Confidence factor:k=2				

## 7.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

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## 8 RF OUTPUT POWER

Test Requirement: FCC Part 2.1046,22.913 (a),24.232 (c)

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: TX transmitting

## 8.1 EUT Operation

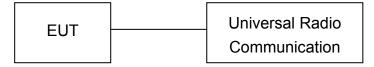
Operating Environment:

Temperature: 22.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.2kPa

#### 8.2 Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



#### Radiated method:

- 1. The setup of EUT is according with per TIA/EIA Standard 603D.
- The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

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8.3 Test Result

Conducted Power									
GSM - Burst Average Power (dBm)									
Band		GSM850			PCS1900				
Channel	128	190	251	512	661	810			
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8			
GSM	32.49	32.61	32.46	29.78	29.58	29.34			
GPRS (1 slot)	32.42	32.51	32.33	29.17	29.44	29.85			
GPRS (2 slots)	31.25	31.47	31.16	28.59	28.24	28.35			
GPRS (3 slots)	30.25	30.39	30.47	27.18	27.36	27.14			
GPRS (4 slots)	29.35	29.78	29.14	26.35	26.59	26.35			
EGPRS (1 slot)	26.82	26.77	26.59	25.54	25.12	25.37			
EGPRS (2 slots)	25.36	25.34	25.21	24.58	24.69	24.21			
EGPRS (3 slots)	24.47	24.36	24.15	23.36	23.54	23.12			
EGPRS (4 slots)	23.69	23.45	23.14	22.36	22.14	22.36			

WCDMA - Average Power (dBm)									
Band	WC	DMA Band	l II	WCDMA Band V					
Channel	9262	9400	9538	4132	4183	4233			
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6			
RMC 12.2k	22.63	22.45	22.14	22.42	22.38	22.31			
HSDPA Subtest-1	21.40	21.07	21.33	21.55	21.49	21.39			
HSDPA Subtest-2	21.36	21.25	21.21	21.69	21.24	21.18			
HSDPA Subtest-3	21.59	21.35	21.47	21.36	21.25	21.48			
HSDPA Subtest-4	21.58	21.69	21.35	21.47	21.58	21.36			
HSUPA Subtest-1	21.05	21.18	21.43	21.49	21.44	21.40			
HSUPA Subtest-2	21.16	21.36	21.14	21.38	21.15	21.24			
HSUPA Subtest-3	21.47	21.36	21.18	21.36	21.14	21.25			
HSUPA Subtest-4	21.36	21.25	21.19	21.21	21.13	21.17			
HSUPA Subtest-5	21.12	21.24	21.18	21.25	21.47	21.25			

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## **Radiated Power**

## ERP and EIRP

Cellular Band 850 (Part 22H)

			OCI	idiai Da	na 850 (F	art ZZII	<u> </u>			
Frequency	Receiver	Turn table	RX An	tenna		Substitut	ed	Absolute	Part	22H
rrequericy	Reading	Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
GSM 850 Channel 128										
824.20	90.40	212	2.5	Н	23.37	0.20	0.00	23.17	38.45	-15.28
824.20	97.31	162	2.3	V	30.21	0.20	0.00	30.01	38.45	-8.44
			(	GSM 85	0 Chann	el 190		T.		
836.60	91.03	166	2.2	Н	24.00	0.20	0.00	23.80	38.45	-14.65
836.60	97.40	88	1.5	V	30.30	0.20	0.00	30.10	38.45	-8.35
		T	(	GSM 85	0 Chann	el 251		T		
848.80	91.35	216	2.0	Н	24.32	0.20	0.00	24.12	38.45	-14.33
848.80	97.06	30	1.7	V	29.96	0.20	0.00	29.76	38.45	-8.69
		I	C	SPRS 85	50 Chanr	nel 128			Т	
824.20	91.02	217	2.0	Н	23.99	0.20	0.00	23.79	38.45	-14.66
824.20	97.68	281	1.2	V	30.58	0.20	0.00	30.38	38.45	-8.07
		T .	C	SPRS 85	50 Chanr	nel 190			Т	
836.60	91.18	183	1.5	Н	24.15	0.20	0.00	23.95	38.45	-14.50
836.60	97.15	144	1.7	V	30.05	0.20	0.00	29.85	38.45	-8.60
		Г	(	SPRS 85	0 Chanr	nel 251			T	
848.80	90.54	347	2.5	Н	23.51	0.20	0.00	23.31	38.45	-15.14
848.80	97.73	221	1.3	V	30.63	0.20	0.00	30.43	38.45	-8.02
		Г	E	GPRS 8	50 Chan	nel 128			I	
824.20	87.01	268	2.3	Н	19.98	0.20	0.00	19.78	38.45	-18.67
824.20	92.88	275	2.1	V	25.78	0.20	0.00	25.58	38.45	-12.87
			E	GPRS 8	50 Chan	nel 190			I	
836.60	86.20	200	2.2	Н	19.17	0.20	0.00	18.97	38.45	-19.48
836.60	92.51	326	1.8	V	25.41	0.20	0.00	25.21	38.45	-13.24
			E	GPRS 8	50 Chan	nel 251			I	
848.80	86.33	170	1.1	Н	19.30	0.20	0.00	19.10	38.45	-19.35
848.80	92.03	154	1.9	V	24.93	0.20	0.00	24.73	38.45	-13.72

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Cellular Band 1900 (Part 24E)

1			Cell	ular Bar	nd 1900 (	Part 24E	:)		1	
Fraguenov	Receiver Turn	Turn table	RX An	tenna	:	Substitut	ed	Absolute	Part	:22H
Frequency	Reading	Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
			F	PCS 190	00 Chann	el 512				
1850.20	84.74	211	1.4	Н	10.77	0.31	10.40	20.86	33	-12.14
1850.20	92.46	295	2.1	V	19.18	0.31	10.40	29.27	33	-3.73
			F	PCS 190	0 Chann	el 661				
1880.00	86.43	19	1.9	Н	12.58	0.31	10.40	22.67	33	-10.33
1880.00	92.97	191	1.7	V	19.85	0.31	10.40	29.94	33	-3.06
			F	PCS 190	0 Chann	el 810				
1909.80	86.49	67	2.4	Н	12.76	0.32	10.40	22.84	33	-10.16
1909.80	92.01	197	2.3	V	19.05	0.32	10.40	29.13	33	-3.87
			G	PRS 19	00 Chan	nel 512			T	
1850.20	87.55	207	1.8	Н	13.58	0.31	10.40	23.67	33	-9.33
1850.20	92.87	103	1.1	V	19.59	0.31	10.40	29.68	33	-3.32
			G	PRS 19	00 Chan	nel 661			ı	
1880.00	86.42	246	1.2	Н	12.57	0.31	10.40	22.66	33	-10.34
1880.00	92.84	204	1.4	V	19.72	0.31	10.40	29.81	33	-3.19
			G	PRS 19	00 Chan	nel 810			ı	
1909.80	85.95	57	2.5	Н	12.22	0.32	10.40	22.30	33	-10.70
1909.80	92.17	207	1.2	V	19.21	0.32	10.40	29.29	33	-3.71
		T	EC	SPRS 19	900 Char	nel 512	1	1	T	I
1850.20	82.93	319	1.8	Н	8.96	0.31	10.40	19.05	33	-13.95
1850.20	88.23	97	1.1	V	14.95	0.31	10.40	25.04	33	-7.96
		Γ	EC	SPRS 19	900 Char	nel 661	T		Т	Г
1880.00	84.67	56	1.9	Н	10.82	0.31	10.40	20.91	33	-12.09
1880.00	88.23	91	1.9	V	15.11	0.31	10.40	25.20	33	-7.80
		Г	EC	SPRS 19	900 Char	nel 810	T		Г	T
1909.80	82.08	266	2.3	Н	8.35	0.32	10.40	18.43	33	-14.57
1909.80	88.65	195	1.4	V	15.69	0.32	10.40	25.77	33	-7.23

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WCDMA Band V (Part 22H)

1			VVC	JUMA B	and V (P	art 22H)			I	
Fraguency	Frequency Receiver		RX An	tenna	;	Substitut	ed	Absolute	Part	:22H
riequency	Reading	table Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
			WCDM	A Band \	√ Voice (	Channel	4132			
826.40	76.35	212	1.3	Н	9.32	0.20	0.00	9.12	38.45	-29.33
826.40	84.60	133	2.3	V	17.50	0.20	0.00	17.30	38.45	-21.15
			WCDM	A Band	V Voice (	Channel	4183			,
836.60	77.57	222	1.2	Н	10.54	0.20	0.00	10.34	38.45	-28.11
836.60	84.39	22	1.5	V	17.29	0.20	0.00	17.09	38.45	-21.36
		ı	WCDM	A Band \	V Voice (	Channel	4233			1
846.60	77.13	64	1.4	Н	10.10	0.20	0.00	9.90	38.45	-28.55
846.60	84.34	80	2.2	V	17.24	0.20	0.00	17.04	38.45	-21.41
		T	WCDMA	Band V	HSDPA	Channe	4132		T	Г
826.40	79.89	212	2.3	Н	12.86	0.20	0.00	12.66	38.45	-25.79
826.40	84.78	127	1.8	V	17.68	0.20	0.00	17.48	38.45	-20.97
		T	WCDMA	Band V	HSDPA	Channe	4183		Т	
836.60	79.01	14	1.0	Н	11.98	0.20	0.00	11.78	38.45	-26.67
836.60	84.38	54	1.1	V	17.28	0.20	0.00	17.08	38.45	-21.37
		T	WCDMA	Band V	HSDPA	Channe	4233		Т	
846.60	78.67	35	1.2	Н	11.64	0.20	0.00	11.44	38.45	-27.01
846.60	84.88	128	1.1	V	17.78	0.20	0.00	17.58	38.45	-20.87
		Г	WCDMA	Band V	HSUPA	Channe	4132		T	
826.40	78.80	135	1.2	Н	11.77	0.20	0.00	11.57	38.45	-26.88
826.40	84.45	139	1.7	V	17.35	0.20	0.00	17.15	38.45	-21.30
		T	WCDMA	Band V	HSUPA	Channe	4183		I	
836.60	79.61	319	1.3	Н	12.58	0.20	0.00	12.38	38.45	-26.07
836.60	84.09	145	1.5	V	16.99	0.20	0.00	16.79	38.45	-21.66
			WCDMA	Band V	HSUPA	Channe	4233		I	
846.60	77.01	211	1.8	Н	9.98	0.20	0.00	9.78	38.45	-28.67
846.60	84.57	295	2.0	V	17.47	0.20	0.00	17.27	38.45	-21.18

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WCDMA Band II (Part 24E)

		1	W	CDMA E	Band II (P	art 24E)		1	ı	
	Receiver	er Turn table	RX An	tenna	;	Substitut	ed	Absolute	Part	: 22H
Frequency	Reading	Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
			WCDM	A Band	II Voice (	Channel	9262			
1852.40	77.25	257	2.0	Н	3.28	0.31	10.40	13.37	33	-19.63
1852.40	84.92	39	1.8	V	11.64	0.31	10.40	21.73	33	-11.27
		T	WCDM	A Band	II Voice (	Channel	9400	T	T	,
1880.00	76.03	7	2.0	Н	2.18	0.31	10.40	12.27	33	-20.73
1880.00	84.05	235	2.0	V	10.93	0.31	10.40	21.02	33	-11.98
		T	WCDM	A Band	II Voice (	Channel	9538	T	T	,
1907.60	77.17	1	2.4	Н	3.44	0.32	10.40	13.52	33	-19.48
1907.60	84.41	95	1.4	V	11.45	0.32	10.40	21.53	33	-11.47
	1	T	WCDMA	Band II	HSDPA	Channe	l 9262	T	ı	, T
1852.40	79.80	43	1.9	Н	5.83	0.31	10.40	15.92	33	-17.08
1852.40	84.93	205	2.1	V	11.65	0.31	10.40	21.74	33	-11.26
	<u> </u>	T	WCDMA	Band II	HSDPA	Channe	l 9400	Γ	ı	,
1880.00	77.27	180	2.1	Н	3.42	0.31	10.40	13.51	33	-19.49
1880.00	84.44	264	2.5	V	11.32	0.31	10.40	21.41	33	-11.59
			WCDMA	Band II	HSDPA	Channe	l 9538		T	
1907.60	76.24	146	2.2	Н	2.51	0.32	10.40	12.59	33	-20.41
1907.60	84.92	22	1.7	V	11.96	0.32	10.40	22.04	33	-10.96
		T	WCDMA	Band II	HSUPA	Channe	9262	T	ı	ı
1852.40	76.77	190	1.8	Н	2.80	0.31	10.40	12.89	33	-20.11
1852.40	84.78	272	2.2	V	11.50	0.31	10.40	21.59	33	-11.41
		T	WCDMA	Band II	HSUPA	Channe	9400	T	T	T
1880.00	79.29	318	1.9	Н	5.44	0.31	10.40	15.53	33	-17.47
1880.00	84.48	277	1.4	V	11.36	0.31	10.40	21.45	33	-11.55
		T	WCDMA	Band II	HSUPA	Channe	9538	Γ	<del></del>	T
1907.60	77.77	354	1.8	Н	4.04	0.32	10.40	14.12	33	-18.88
1907.60	84.04	87	1.9	V	11.08	0.32	10.40	21.16	33	-11.84

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## 9 Peak-to-Average Ratio

Test Requirement: 24.232 (d)

Test Method: N/A

Test Mode: TX transmitting

## 9.1 EUT Operation

Operating Environment:

Temperature: 22.5 °C
Humidity: 52.3% RH
Atmospheric Pressure: 101.2kPa

## 9.2 Test Procedure

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.

- 2. Set EUT to transmit at maximum output power.
- 3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
- 4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.



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## 9.3 Test Result

Cellular Band (Part 24E)

Remark: Only the worst case (middle channel mode) were reported.

Mode	PCS 1900			O	GPRS 1900			EDGE 1900		
Channel	512	661	810	512	661	810	512	661	810	Limit
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	(dB)
Peak-to-Average Ratio (dB)	9.87	9.91	9.80	9.38	9.55	9.40	12.18	12.27	12.09	13

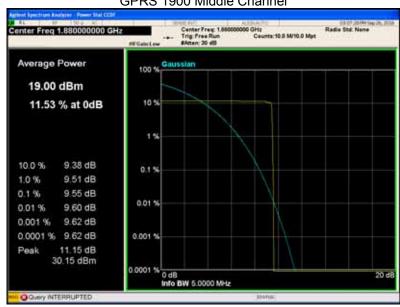
Mode	wo			
Channel	512	661	810	Limit
Frequency (MHz)	1850.2	1880.0	1909.8	(dB)
Peak-to-Average Ratio (dB)	2.69	2.75	2.48	13

Test Plots (Part 24E)

PCS1900 Middle Channel



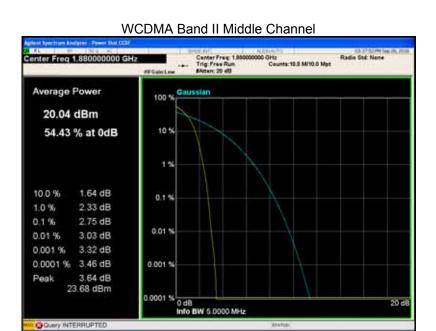




EDGE 1900 Middle Channel



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## 10 BANDWIDTH

Test Requirement: FCC Part 2.1049,22.917,22.905,24.238

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: TX transmitting

## 10.1 EUT Operation

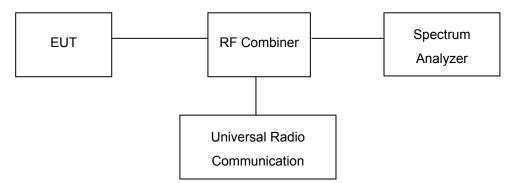
Operating Environment:

Temperature:  $22.5 \, ^{\circ}\text{C}$  Humidity:  $52.3\% \, \text{RH}$  Atmospheric Pressure:  $101.2 \, \text{kPa}$ 

### 10.2 Test Procedure

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 3 kHz (Cellular /PCS) and the 26 dB & 99%bandwidth was recorded.



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## 10.3 Test Result

## Cellular Band (Part 22H)

Test Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth(kHz)	26 dB Emission Bandwidth(kHz)
	128	824.2	247.30	311.74
GSM 850	190	836.6	247.39	311.80
	251	848.8	247.31	311.68
	128	824.2	244.47	315.91
GPRS 850	190	836.6	244.60	316.00
	251	848.8	244.52	315.98
	128	824.2	256.73	318.10
EGPRS 850	190	836.6	256.83	318.20
	251	848.8	256.81	318.07

Т	Test Mode		Frequency (MHz)	99% Occupied Bandwidth(MHz)	26 dB Emission Bandwidth(MHz)
	RMC12.2k	4132	826.4	4.15	4.78
		4183	836.6	4.22	4.90
		4233	846.6	4.12	4.85
	HSDPA(16QAM)	4132	826.4	4.08	4.72
WCDMA		4183	836.6	4.22	4.88
Band V		4233	846.6	4.12	4.79
		4132	826.4	4.12	4.85
	HSUPA(BPSK)	4183	836.6	4.23	4.87
		4233	846.6	4.07	4.79

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Cellular Band (Part 24E)

Test Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth(kHz)	26 dB Emission Bandwidth(kHz)
	512	1850.2	245.49	310.46
PCS 1900	661	1880.0	245.60	310.60
	810	1909.8	245.49	310.58
	512	1850.2	246.18	314.97
GPRS 1900	661	1880.0	246.32	315.10
	810	1909.8	246.25	315.07
EGPRS 1900	512	1850.2	258.02	324.06
	661	1880.0	258.14	324.10
	810	1909.8	258.01	324.07

Т	Test Mode		Frequency (MHz)	99% Occupied Bandwidth(MHz)	26 dB Emission Bandwidth(MHz)
		9262	1852.4	4.07	4.74
	RMC12.2k	9400	1880.0	4.22	4.89
		9538	1907.6	4.13	4.83
		9262	1852.4	4.10	4.79
WCDMA	HSDPA(16QAM)	9400	1880.0	4.23	4.87
Band II		9538	1907.6	4.12	4.86
		9262	1852.4	4.13	4.77
	HSUPA(BPSK)	9400	1880.0	4.22	4.90
		9538	1907.6	4.16	4.76

Remark: Only the worst plots (middle channel mode) were reported

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# Test Plots (worst case) Cellular Band (Part 22H)

## **GSM 850**

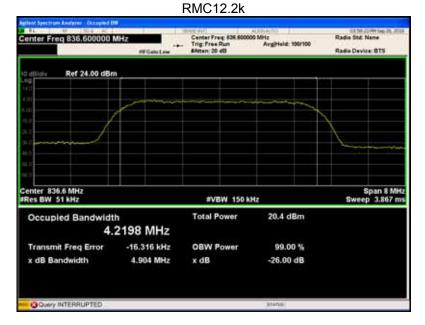


## **GPRS 850**

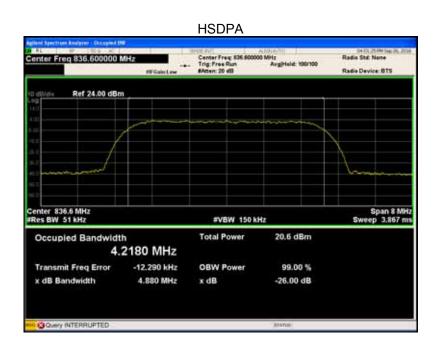


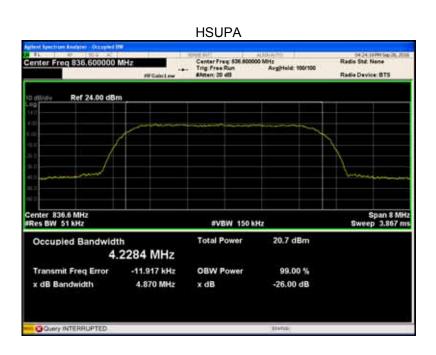
**EGPRS 850** Center Freq \$35,500000 MHz
Trig Free Run AvgPleid: 100r100
#Amen: 30 dB nter Freq 836,600000 MHz Ref 34.00 dBm Center 836.6 MHz #Res BW 3 kHz #VBW 10 kHz Total Power 16.7 dBm Occupied Bandwidth 256.83 kHz -252 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 318.2 kHz x dB -26.00 dB Query INTERRUPTED

## WCDMA band V



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## Cellular Band (Part 24E)

## PCS 1900



## **GPRS 1900**



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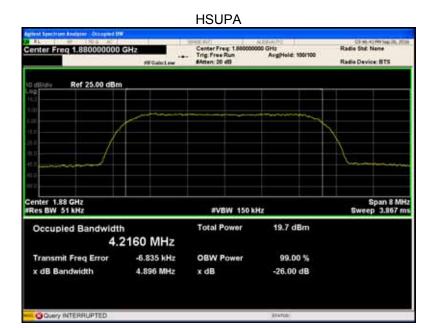
## WCDMA band II

## RMC12.2k



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## 11 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: FCC Part 2.1051,22.917(a),24.238(a)

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: TX transmitting

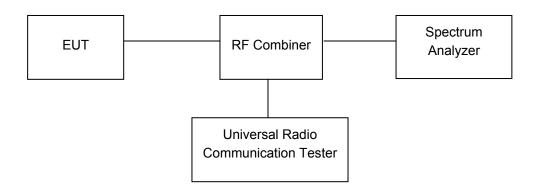
## 11.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.3kPa

### 11.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.



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## 11.3 Test Result

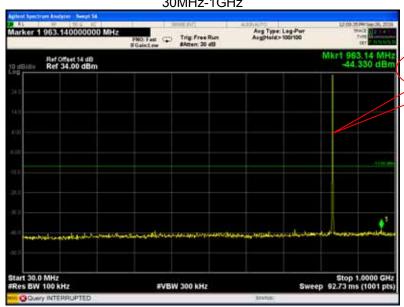
Remark: only the worst data were recorded.

Cellular Band (Part 22H)

GSM 850 - channel 128

30MHz-1GHz

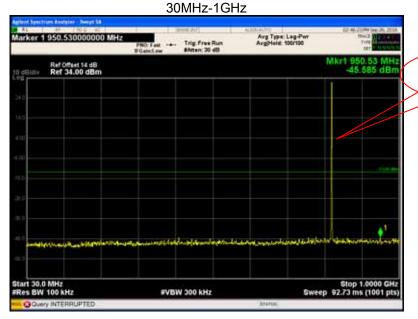
Fundamental





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Cellular Band (Part 22H) **GPRS 850 - channel 128** 



Fundamental

## Above 1GHz



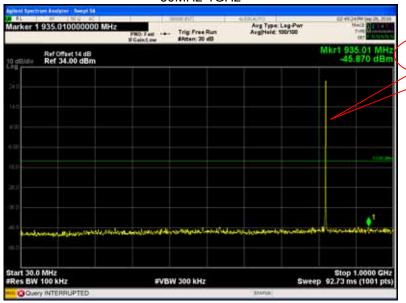
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Cellular Band (Part 22H) EGPRS 850 - channel 128

30MHz-1GHz

Fundamental

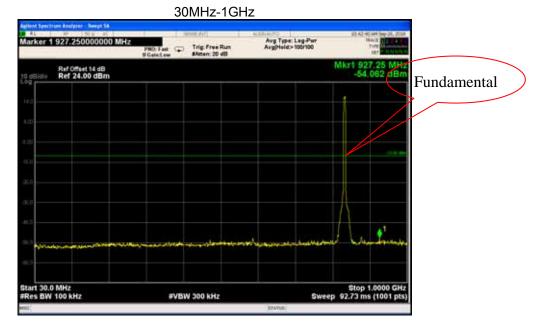


Above 1GHz



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Cellular Band (Part 22H)
WCDMA band V - channel 4233

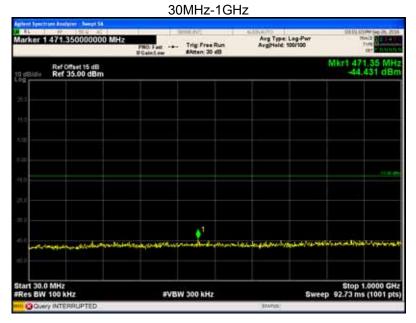




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Cellular Band (Part 24E)
PCS 1900 - channel 512





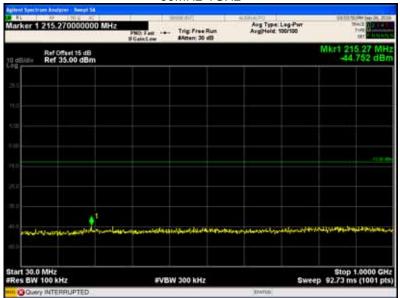
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### Cellular Band (Part 24E)

# GPRS 1900 - channel 512

### 30MHz-1GHz



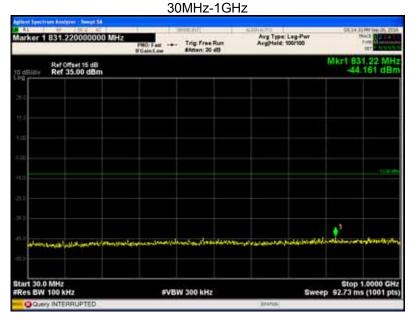
### Above 1GHz

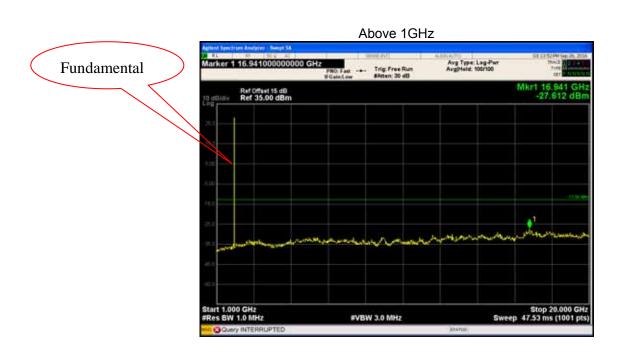


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Cellular Band (Part 24E) EGPRS 1900 - channel 512

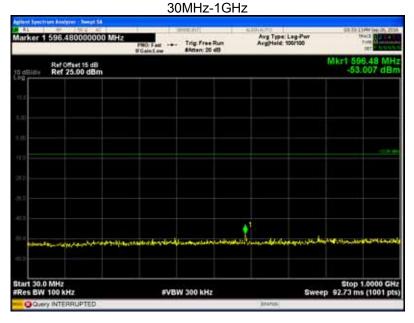




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WCDMA band II - channel 9400



Above 1GHz

| Marker 1 17.0360000000000 GHz | Marker 1 17.035 GHz | Marker 1 17.035 GHz | Marker 1 17.035 GHz | Marker 1 15.00 GHz | Ma

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# 12 SPURIOUS RADIATED EMISSIONS

Test Requirement: FCC Part 2.1053,22.917,24.238

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: TX transmitting

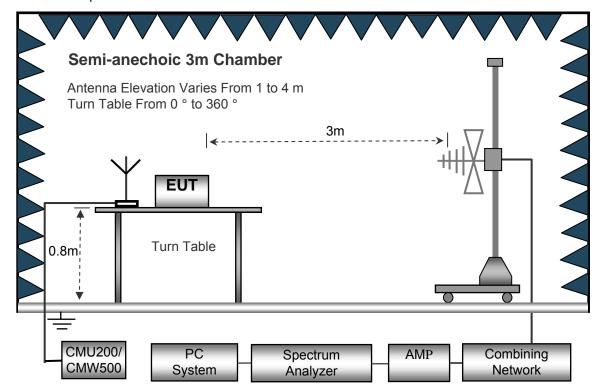
# 12.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.2kPa

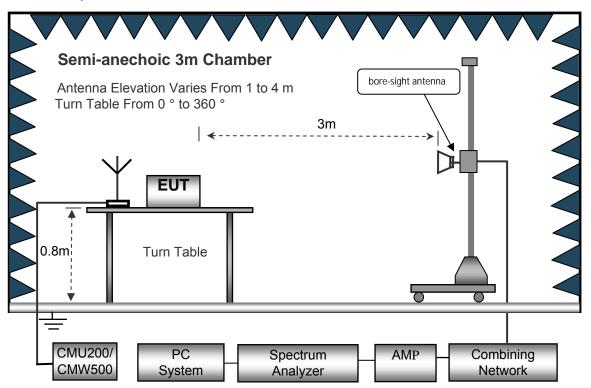
# 12.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site. The test setup for emission measurement from 30 MHz to 1 GHz.



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The test setup for emission measurement above 1 GHz.



### 12.3 Spectrum Analyzer Setup

 30MHz ~ 1GHz
 Sweep Speed
 Auto

 Detector
 PK

 Resolution Bandwidth
 100kHz

 Video Bandwidth
 300kHz

 Above 1GHz
 Auto

 Sweep Speed
 Auto

 Detector
 PK

 Resolution Bandwidth
 1MHz

 Video Bandwidth
 3MHz

 Detector
 Ave

 Resolution Bandwidth
 1MHz

Video Bandwidth......10Hz

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#### 12.4 Test Procedure

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1. The EUT is placed on a turntable, which is 0.8m above ground plane.

- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from 30MHz up to the tenth harmonic of the highest fundamental frequency.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.
- 7. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
  - Spurious emissions in dB =  $10 \log (TXpwr in Watts/0.001)$  the absolute level Spurious attenuation limit in dB =  $43 + 10 \log 10$  (power out in Watts)
- 8. Repeat above procedures until the measurements for all frequencies are completed.

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# 12.5 Summary of Test Results

For 26MHz~30MHz,

The measurements were more than 20 dB below the limit and not reported.

Remark: Test performed from 30MHz to 10<sup>th</sup> harmonics with low/middle/high channels, only the worst data were recorded.

Cellular Band (Part 22H)

	Receiver	ceiver Turn	RX Ar	ntenna	Substituted			Absolute	Result	
Frequency	Reading	table Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
				GSM 85	0 Channe	l 128				
199.38	41.43	238	1.7	Н	-69.08	0.15	0.00	-69.23	-13.00	-56.23
199.38	45.65	342	1.3	V	-61.94	0.15	0.00	-62.09	-13.00	-49.09
1648.40	67.84	72	1.1	Н	-46.13	0.30	9.40	-37.03	-13.00	-24.03
1648.40	58.32	344	1.5	V	-55.21	0.30	9.40	-46.11	-13.00	-33.11
2472.60	57.83	84	1.9	Н	-56.17	0.43	10.60	-46.00	-13.00	-33.00
2472.60	48.14	111	1.5	V	-62.14	0.43	10.60	-51.97	-13.00	-38.97
			WC	DMA Bar	nd V Char	nel 4233	3			
199.38	40.76	241	1.5	Н	-69.75	0.15	0.00	-69.90	-13.00	-56.90
199.38	45.43	61	2.1	V	-62.16	0.15	0.00	-62.31	-13.00	-49.31
1693.20	59.20	123	1.6	Н	-54.77	0.30	9.40	-45.67	-13.00	-32.67
1693.20	49.27	7	1.1	V	-64.26	0.30	9.40	-55.16	-13.00	-42.16
2539.80	49.37	172	2.1	Н	-64.63	0.43	10.60	-54.46	-13.00	-41.46
2539.80	38.20	281	1.2	V	-72.08	0.43	10.60	-61.91	-13.00	-48.91

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Cellular Band (Part 24E)

_	Receiver	Turn			bana (i ai	Substitut	ed	Absolute	Result	
Frequency	Reading	table Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
				PCS 190	0 Channe	el 512				
199.38	50.01	289	1.7	Н	-60.50	0.15	0.00	-60.65	-13.00	-47.65
199.38	39.07	161	1.8	V	-68.52	0.15	0.00	-68.67	-13.00	-55.67
3700.40	65.95	274	1.8	Н	-45.59	2.37	12.50	-35.46	-13.00	-22.46
3700.40	59.98	24	1.7	V	-49.83	2.37	12.50	-39.70	-13.00	-26.70
5550.60	53.58	190	1.8	Н	-56.03	2.86	12.90	-45.99	-13.00	-32.99
5550.60	44.73	127	1.8	V	-64.15	2.86	12.90	-54.11	-13.00	-41.11
			WC	DMA Bai	nd II Char	nel 9400	)			T
199.38	50.82	253	1.2	Н	-59.69	0.15	0.00	-59.84	-13.00	-46.84
199.38	38.14	210	1.9	V	-69.45	0.15	0.00	-69.60	-13.00	-56.60
3760.00	59.91	185	1.3	Н	-51.63	2.37	12.50	-41.50	-13.00	-28.50
3760.00	53.49	195	1.6	V	-56.32	2.37	12.50	-46.19	-13.00	-33.19
5640.00	46.37	194	1.2	Н	-63.24	2.86	12.90	-53.20	-13.00	-40.20
5640.00	38.64	165	2.1	V	-70.24	2.86	12.90	-60.20	-13.00	-47.20

Note: 1) Absolute Level = SG Level - Cable loss + Antenna Gain

2) Margin = Limit- Absolute Level

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# 13 Band Edge Measurement

Test Requirement: FCC Part 2.1051,22.917(a),24.238(a)

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: TX transmitting

# 13.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.3 % RH
Atmospheric Pressure: 101.3kPa

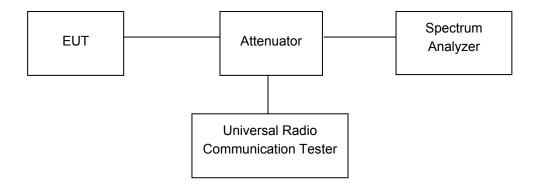
#### 13.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

According to FCC Part 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the TX transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to FCC Part 24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the TX transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The center of the spectrum analyzer was set to block edge frequency

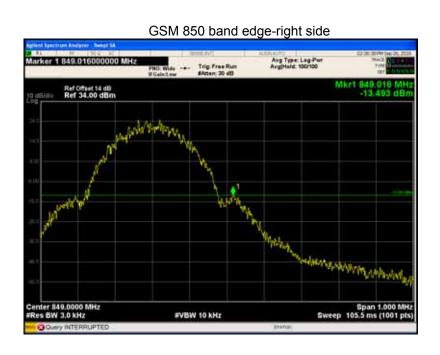


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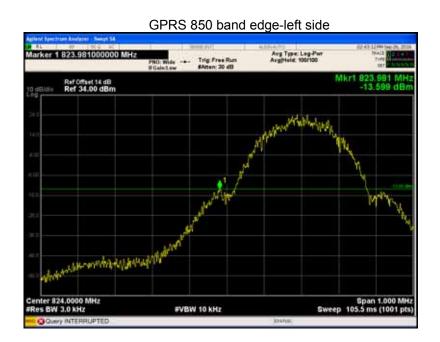
# 13.3 Test Result

Test plots
Cellular Band (Part 22H)

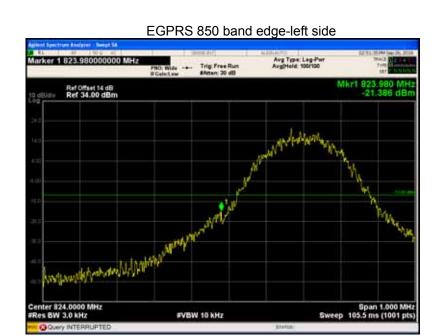


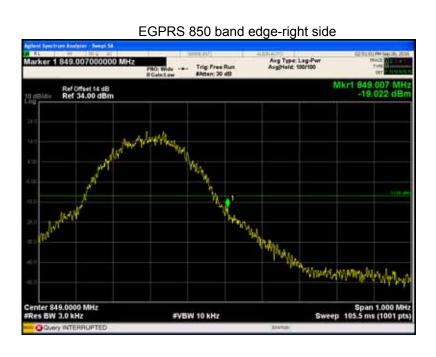


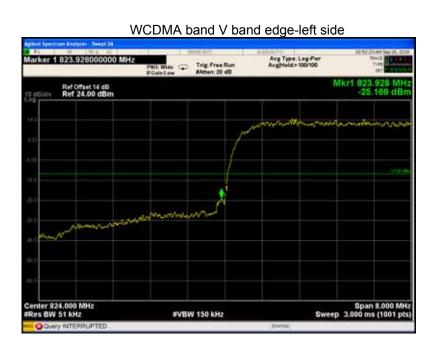
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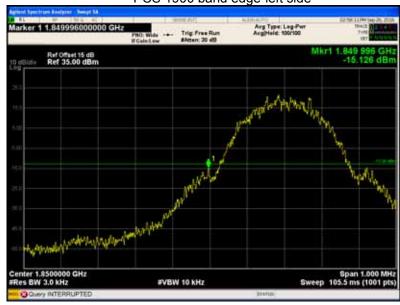


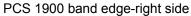




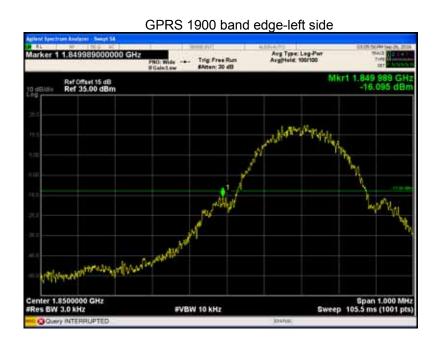
Cellular Band (Part 24E)

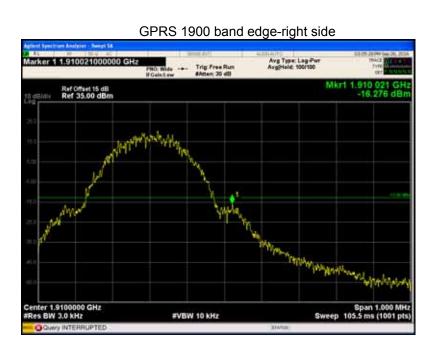
PCS 1900 band edge-left side

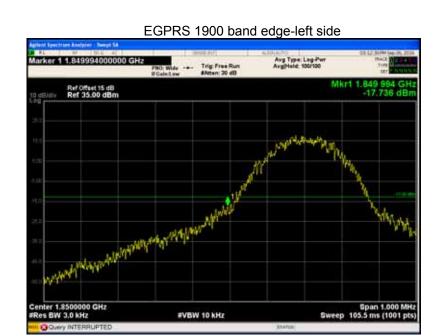


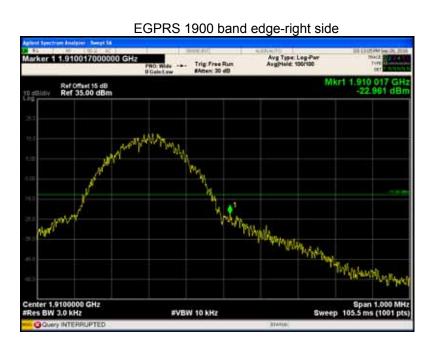


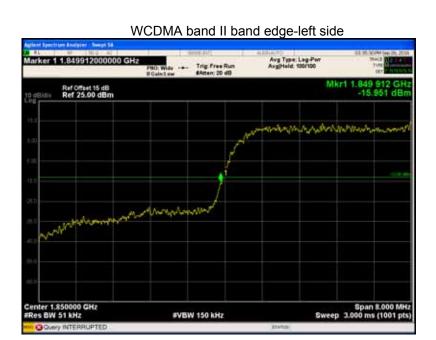














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# 14 FREQUENCY STABILITY

Test Requirement: FCC Part 2.1055,22.355,24.235

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: TX transmitting

# 14.1 EUT Operation

Operating Environment:

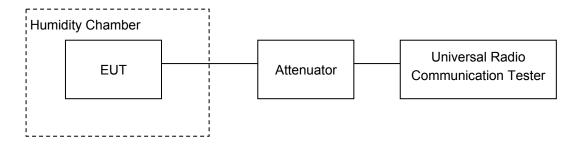
Temperature: 22.9 °C
Humidity: 52.0 % RH
Atmospheric Pressure: 101.3kPa

#### 14.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



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# 14.3 Test Result

Cellular Band (Part 22H)

	GSM 850 Test Frequency:836.6MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		11	0.0131	2.5			
40		18	0.0215	2.5			
30		2	0.0024	2.5			
20	3.7	11	0.0131	2.5			
10		17	0.0203	2.5			
0		18	0.0215	2.5			
-10		8	0.0096	2.5			
-20		5	0.0060	2.5			
-30		14	0.0167	2.5			
20	3.3	12	0.0143	2.5			
20	4.2	6	0.0072	2.5			

GPRS 850 Test Frequency:836.6MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
50		14	0.0167	2.5		
40		7	0.0084	2.5		
30		17	0.0203	2.5		
20		9	0.0108	2.5		
10	3.7	16	0.0191	2.5		
0		0	0.0000	2.5		
-10		12	0.0143	2.5		
-20		14	0.0167	2.5		
-30		16	0.0191	2.5		
20	3.3	10	0.0120	2.5		
20	4.2	7	0.0084	2.5		

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	EGPRS 850 Test Frequency:836.6MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		10	0.0120	2.5			
40		5	0.0060	2.5			
30		8	0.0096	2.5			
20		10	0.0120	2.5			
10	3.7	17	0.0203	2.5			
0		5	0.0060	2.5			
-10		18	0.0215	2.5			
-20		5	0.0060	2.5			
-30		4	0.0048	2.5			
20	3.3	3	0.0036	2.5			
20	4.2	7	0.0084	2.5			

	WCDMA Band V Test Frequency:836.6MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		-1	-0.0012	2.5			
40		-12	-0.0143	2.5			
30		-4	-0.0048	2.5			
20		-5	-0.0060	2.5			
10	3.7	0	0.0000	2.5			
0		0	0.0000	2.5			
-10		-7	-0.0084	2.5			
-20		2	0.0024	2.5			
-30		-6	-0.0072	2.5			
20	3.3	0	0.0000	2.5			
20	4.2	1	0.0012	2.5			

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PCS Band (Part 24E)

	PCS Band (Part 24E) PCS 1900 Test Frequency:1880.0MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		85	0.0452	2.5			
40		86	0.0457	2.5			
30		96	0.0511	2.5			
20		89	0.0473	2.5			
10	3.7	95	0.0505	2.5			
0		87	0.0463	2.5			
-10		96	0.0511	2.5			
-20		85	0.0452	2.5			
-30		82	0.0436	2.5			
20	3.3	97	0.0516	2.5			
20	4.2	96	0.0511	2.5			

	GPRS 1900 Test Frequency:1880.0MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		94	0.0500	2.5			
40		83	0.0441	2.5			
30		95	0.0505	2.5			
20		90	0.0479	2.5			
10	3.7	87	0.0463	2.5			
0		86	0.0457	2.5			
-10		87	0.0463	2.5			
-20		98	0.0521	2.5			
-30		92	0.0489	2.5			
20	3.3	97	0.0516	2.5			
20	4.2	94	0.0500	2.5			

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	EGPRS 1900 Test Frequency:1880.0MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		27	0.0144	2.5			
40		35	0.0186	2.5			
30		19	0.0101	2.5			
20		28	0.0149	2.5			
10	3.7	26	0.0138	2.5			
0		28	0.0149	2.5			
-10		33	0.0176	2.5			
-20		27	0.0144	2.5			
-30		29	0.0154	2.5			
20	3.3	20	0.0106	2.5			
20	4.2	35	0.0186	2.5			

	WCDMA Band II Test Frequency:1880.0MHz						
Temperature ( )	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		85	0.0452	2.5			
40		86	0.0457	2.5			
30		96	0.0511	2.5			
20		89	0.0473	2.5			
10	3.7	95	0.0505	2.5			
0		87	0.0463	2.5			
-10		96	0.0511	2.5			
-20		85	0.0452	2.5			
-30		82	0.0436	2.5			
20	3.3	97	0.0516	2.5			
20	4.2	96	0.0511	2.5			

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# 15 RF Exposure

Remark: refer to SAR test report: WTS16S0961020E.

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# 16 Photographs of test setup and EUT.

Note: Please refer to appendix: WTS16S0961021E\_Photo.

===== End of Report =====