RF TEST REPORT



Report No.: 15070008-FCC-R1
Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile Phone			
Model No.	s5014			
Serial No.	N/A			
Toot Standard	FCC Part 22(H), FCC Part 24(E), FCC Part 27: 2014; ANSI/TIAC603			
Test Standard	D: 2010			
Test Date	January 12 to January 19, 2015			
Issue Date	January 21, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not	Equipment did not comply with the specification			
Winnie Zhang Alex Lin				
Winnie Zhang		Alex Liu		
Test Engineer		Checked By		

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



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Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070008-FCC-R1	NONE	Original	January 21, 2015

2. Customer information

Applicant Name	Verykool USA Inc	
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122, USA	
Manufacturer	BIRD SUIZHOU ELECTRIC CO.,LTD.	
Manufacturer Add	NO.1, BIRD ROAD, E.T.DEVELOPMENT ZONE, SUIZHOU CITY, HUBEI 441300,	
	CHINA	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong	
	China 518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	LabView of SIEMIC version 2.0	



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: s5014

Serial Model: N/A

Date EUT received: January 12, 2015

Test Date(s): January 12 to January 19, 2015

Equipment Category : PCE

GSM850: -1 dBi PCS1900: -1 dBi

UMTS-FDD Band V: -1 dBi

Antenna Gain: UMTS-FDD Band II: 0 dBi

UMTS-FDD Band IV: 0 dBi

Bluetooth/BLE: 1 dBi

WIFI: 1 dBi

GSM / GPRS: GMSK EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band IV TX :1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz



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GSM850: 32.42 dBm

PCS1900: 30.36 dBm

Maximum Conducted

AV Power to Antenna:

UMTS-FDD Band V: 23.56 dBm

UMTS-FDD Band II: 23.91 dBm

UMTS-FDD Band IV: 22.16 dBm

GSM850: 25.69 dBm / ERP

PCS1900: 23.79 dBm / EIRP

ERP/EIRP: UMTS-FDD Band V: 19.9 dBm / ERP

UMTS-FDD Band II: 19.8 dBm / EIRP UMTS-FDD Band IV: 19.06 dBm / EIRP

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band II: 277CH

Number of Channels: UMTS-FDD Band IV: 202CH

WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

Port: Power Port, Earphone Port, USB Port

Battery:

Model: BH-L4Pi

Spec: 3.7V 1900mAh

Limited charger voltage: 4.2V

Input Power:

Adapter:

Model: SC050100-US

Input: AC 100-240V; 50/60Hz 0.4A

Output: DC 5.0V; 1000mA

Trade Name: verykool

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: WA6S5014



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance	
§2.1046; § 22.913(a); § 24.232(c);	DE Output Dower	Compliance	
§ 27.50(c.10); § 27.50(d.4)	RF Output Power	Compliance	
§ 24.232 (d); § 27.50(d)	Peak-Average Ratio	Compliance	
§ 2.1047	Modulation Characteristics	Compliance	
§ 2.1049; § 22.905; § 22.917;	000/ 9 26 dB Ossumind Bandwidth	Compliance	
§ 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance	
§ 2.1051; § 22.917(a);	Courier Conincione of Antonino Torrigol	Camplianas	
§ 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance	
§ 2.1053; § 22.917(a);	Field Chromath of Countries Dedication	Camplianas	
§ 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance	
§ 22.917(a); § 24.238(a);	Out of hand aminaing Band Edge	0	
§ 27.53(h)	Out of band emission, Band Edge	Compliance	
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. temperature	Compliance	
§ 27.5(h); § 27.54	Frequency stability vs. voltage	Compliance	

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

Measurement Uncertainty

Emissions				
Test Item	Description	Uncertainty		
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB		
-	-	-		



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6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

Please refer to RF Exposure Evaluation Report: 15070008-FCC-H.



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6.2 RF Output Power

Temperature	17°C
Relative Humidity	63%
Atmospheric Pressure	1011mbar
Test date :	January 12, 2015
Tested By :	Winnie Zhang

Requirement(s):

Requirement(s):							
Spec	Item	Requirement Applicab					
§22.913 (a)	a)	RP:38.45dBm					
§24.232 (c)	b)	RP:33dBm					
§27.50 (c)	c)	EIRP: 30dBm	>				
Test Setup		EUT Base Station					
	Fo	or Conducted Power:					
	- The transmitter output port was connected to base station.						
	- Set EUT at maximum power through base station.						
	- Select lowest, middle, and highest channels for each band and						
	different test mode.						
	For ERP/EIRP:						
	- The transmitter was placed on a wooden turntable, and it was						
	transmitting into a non-radiating load which was also placed on the						
Test Procedure	turntable.						
	-	The measurement antenna was placed at a distance of	f 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.						
	- The frequency range up to tenth harmonic of the fundamental						
	frequency was investigated.						
	- Remove the EUT and replace it with substitution antenna. A signa						



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_					
	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 (TX power in Watts/0.001) –				
	the absolute level				
	- Spurious attenuation limit in dB = 43 + 10 Log10 (power out in				
	Watts.				
Remark					
Result	Pass				
Test Data Yes	□ _{N/A}				
Test Plot Yes	(See below) N/A				



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Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band	GSM850				GSM1900			
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	1
GSM Voice (1 uplink),GMSK	32.34	32.38	32.42	32±1	30.36	30.31	30.32	30±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.33	32.37	32.4	32±1	30.34	30.29	30.29	30±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	31.68	31.72	31.76	31±1	29.68	29.69	29.62	29±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK (4 uplink),GMSK	29.22	29.25	29.26	28.5±1	26.98	27.01	27.04	27±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	32.31	32.34	32.39	32±1	30.29	30.27	30.26	30±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	31.68	31.71	31.76	31±1	29.69	29.71	29.7	29±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	29.22	29.23	29.24	29±1	26.99	27.05	27.07	26.5±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	27.51	27.16	27.24	27±1	27.35	27.56	27.63	27±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	26.38	26.01	25.96	26±1	26.39	26.75	26.69	26±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	24.07	24.52	24.54	24±1	24.08	24.16	24.02	24±1



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Remark:

GPRS, CS1 coding scheme.

EGPRS, MCS1 coding scheme.

EGPRS, MCS5 coding scheme.

Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link

Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS and EGPRS mode.



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UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
configuration	4132	826.4	23.33
RMC	4175	835.0	23.17
12.2kbps	4233	846.6	23.17
	4132	826.4	23.35
HSDPA	4175	835.0	23.42
Subtest1	4233	846.6	23.15
	4132	826.4	23.13
HSDPA	4175	835.0	22.49
Subtest2	4233	846.6	23.51
	4132	826.4	23.31
HSDPA	4175	835.0	23.49
Subtest3	4233	846.6	23.23
	4132	826.4	23.33
HSDPA	4175	835.0	23.52
Subtest4	4233	846.6	23.43
	4132	826.4	23.23
HSUPA	4175	835.0	23.31
Subtest1	4233	846.6	23.41
	4132	826.4	23.28
HSUPA	4175	835.0	23.32
Subtest2	4233	846.6	23.49
	4132	826.4	23.31
HSUPA	4175	835.0	22.19
Subtest3	4233	846.6	23.21
	4132	826.4	23.49
HSUPA	4175	835.0	23.39
Subtest4	4233	846.6	23.41
	4132	826.4	23.52
HSUPA	4175	835.0	23.32
Subtest5	4233	846.6	23.48
	1200	0.10.0	20.40



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UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	
DMO	9262	1852.4	22.69	
RMC	9400	1880.0	23.7	
12.2kbps	9538	1907.6	23.36	
LICDDA	9262	1852.4	23.09	
HSDPA Subtoat1	9400	1880.0	22.83	
Subtest1	9538	1907.6	23.29	
HODDA	9262	1852.4	22.88	
HSDPA	9400	1880.0	23.91	
Subtest2	9538	1907.6	23.27	
	9262	1852.4	22.86	
HSDPA	9400	1880.0	23.68	
Subtest3	9538	1907.6	23.58	
	9262	1852.4	22.87	
HSDPA	9400	1880.0	23.53	
Subtest4	9538	1907.6	23.41	
HOURA	9262	1852.4	22.88	
HSUPA	9400	1880.0	23.69	
Subtest1	9538	1907.6	23.46	
HOURA	9262	1852.4	22.88	
HSUPA	9400	1880.0	23.68	
Subtest2	9538	1907.6	23.67	
HOUDA	9262	1852.4	22.86	
HSUPA	9400	1880.0	23.61	
Subtest3	9538	1907.6	23.48	
LICUIDA	9262	1852.4	22.89	
HSUPA Subtest4	9400	1880.0	23.51	
Sublesi4	9538	1907.6	23.57	
LICUIDA	9262	1852.4	22.85	
HSUPA Subtost5	9400	1880.0	23.47	
Subtest5	9538	1907.6	23.65	



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UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
DMC	1313	1712.6	22.16
RMC	1413	1732.6	22.11
12.2kbps	1512	1752.4	21.85
LICDDA	1313	1712.6	22.09
HSDPA Subtest1	1413	1732.6	22.07
Sublesti	1512	1752.4	21.71
LICDDA	1313	1712.6	22.08
HSDPA Subtest2	1413	1732.6	22.07
Sublesiz	1512	1752.4	22.02
11000	1313	1712.6	22.1
HSDPA	1413	1732.6	21.56
Subtest3	1512	1752.4	21.72
110004	1313	1712.6	22.09
HSDPA	1413	1732.6	22.05
Subtest4	1512	1752.4	21.98
1101104	1313	1712.6	22.02
HSUPA	1413	1732.6	21.64
Subtest1	1512	1752.4	21.99
1101154	1313	1712.6	22.05
HSUPA	1413	1732.6	22.04
Subtest2	1512	1752.4	21.98
LIGUIDA	1313	1712.6	22.06
HSUPA	1413	1732.6	22.02
Subtest3	1512	1752.4	21.97
LICUDA	1313	1712.6	22.03
HSUPA	1413	1732.6	22.01
Subtest4	1512	1752.4	21.96
LICLIDA	1313	1712.6	22.02
HSUPA Subtost5	1413	1732.6	21.98
Subtest5	1512	1752.4	21.95



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ERP & EIRP

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	19.18	V	6.8	0.53	25.45	38.45
824.2	18.55	Н	6.8	0.53	24.82	38.45
836.6	19.42	V	6.8	0.53	25.69	38.45
836.6	18.19	Н	6.8	0.53	24.46	38.45
848.8	19.31	V	6.9	0.53	25.68	38.45
848.8	18.01	Н	6.9	0.53	24.38	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	16.47	V	7.88	0.85	23.5	33
1850.2	15.39	Н	7.88	0.85	22.42	33
1880	16.76	V	7.88	0.85	23.79	33
1880	15.68	Н	7.88	0.85	22.71	33
1909.8	16.14	V	7.86	0.85	23.15	33
1909.8	15.3	Н	7.86	0.85	22.31	33



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ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	13.58	V	6.8	0.53	19.85	38.45
826.4	12.7	Н	6.8	0.53	18.97	38.45
835	13.45	V	6.8	0.53	19.72	38.45
835	12.26	Н	6.8	0.53	18.53	38.45
846.6	13.53	V	6.9	0.53	19.9	38.45
846.6	12.25	Н	6.9	0.53	18.62	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	12.77	V	7.88	0.85	19.8	33
1852.4	11.62	Н	7.88	0.85	18.65	33
1880	12.28	V	7.88	0.85	19.31	33
1880	11.84	Н	7.88	0.85	18.87	33
1907.6	12.57	V	7.86	0.85	19.58	33
1907.6	11.39	Н	7.86	0.85	18.4	33

EIRP for UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	12.12	V	7.76	0.82	19.06	30
1712.4	11.87	Н	7.76	0.82	18.81	30
1740	12.04	V	7.76	0.82	18.98	30
1740	11.36	Н	7.76	0.82	18.3	30
1752.6	11.68	V	7.74	0.82	18.6	30
1752.6	10.95	Н	7.74	0.82	17.87	30

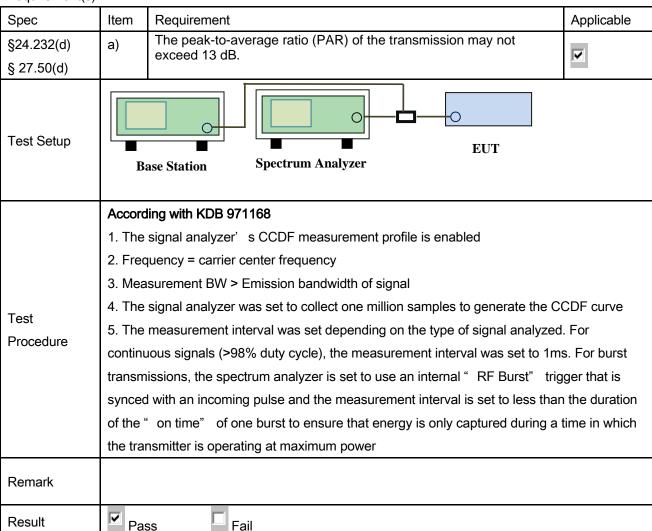


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6.3 Peak-Average Ratio

Temperature	17°C
Relative Humidity	63%
Atmospheric Pressure	1011mbar
Test date :	January 12, 2015
Tested By :	Winnie Zhang

Requirement(s):



Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	✓ _{N/A}



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PCS1900

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	30.42	30.36	0.06
1880	30.41	30.31	0.1
1909.8	30.54	30.32	0.22

WCDMA1900

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	25.8	22.69	3.11
1880	26.67	23.7	2.97
1907.6	26.26	23.36	2.9

WCDMA1700

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.6	25.07	22.16	2.91
1732.6	24.7	21.51	3.59
1752.4	24.1	21.85	2.25



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6.4 Modulation Characteristic

According to FCC § 2.1047(d), Part 22H, 24E& Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.



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6.5 Occupied Bandwidth

Temperature	17°C
Relative Humidity	63%
Atmospheric Pressure	1011mbar
Test date :	January 12, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049,	a)	99% Occupied Bandwidth(kHz)	
§22.917,			-
§22.905	b)	26 dB Bandwidth(kHz)	
§24.238			
§27.53(a)			
Test Setup	B	EUT Spectrum Analyzer	
	-	The EUT was connected to Spectrum Analyzer and Base	Station via
Test		power divider.	
Procedure	-	The 99% and 26 dB occupied bandwidth (BW) of the midd	dle channel
		for the highest RF powers.	
Remark			
Result	☑ Pa	ss Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	247.4075	319.220
190	836.6	247.0477	312.832
251	848.8	247.6207	318.282

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	246.0595	317.147
661	1880.0	244.9687	315.831
810	1909.8	243.4493	316.291

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1543	4.680
4175	835.0	4.1541	4.703
4233	846.6	4.1473	4.707

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1726	4.690
9400	1880.0	4.1614	4.695
9538	1907.6	4.1536	4.681

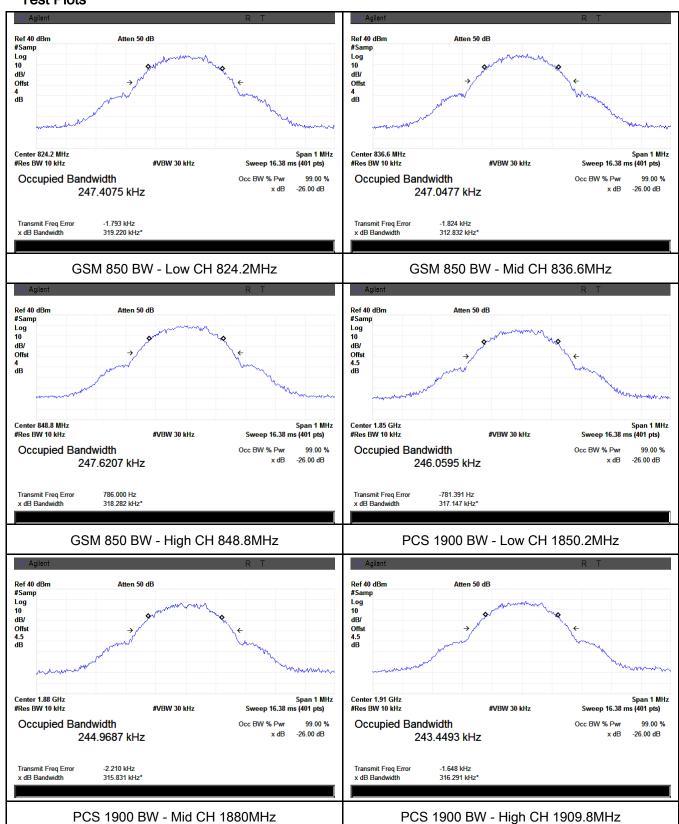
UMTS-FDD Band IV (Part 27)

Channel	Frequency	99% Occupied	26 dB Bandwidth
Channel	(MHz)	Bandwidth (MHz)	(MHz)
1313	1712.4	4.1541	4.706
1413	1732.6	4.1580	4.673
1512	1752.6	4.1462	4.709



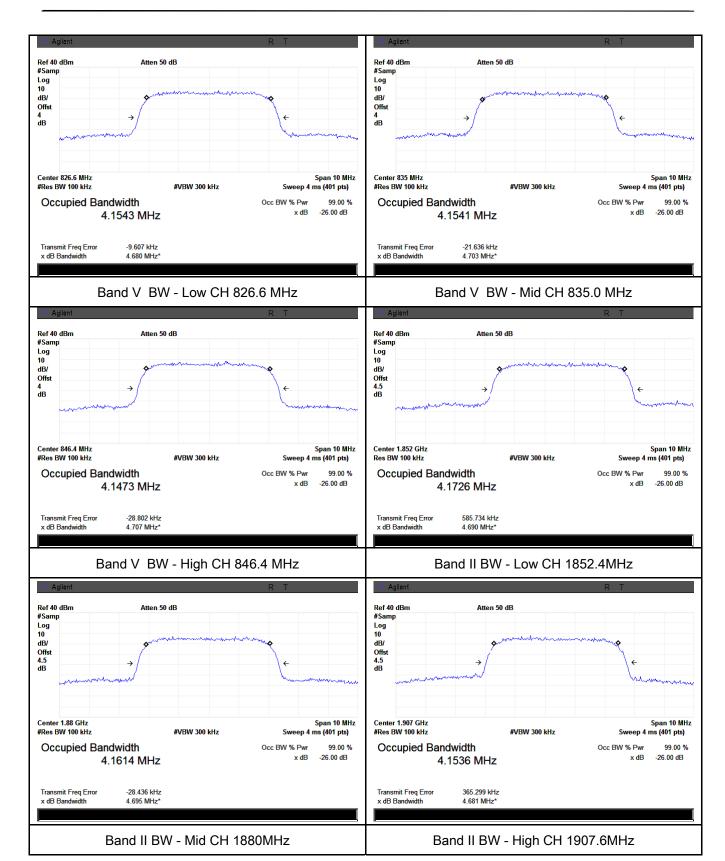
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Test Plots



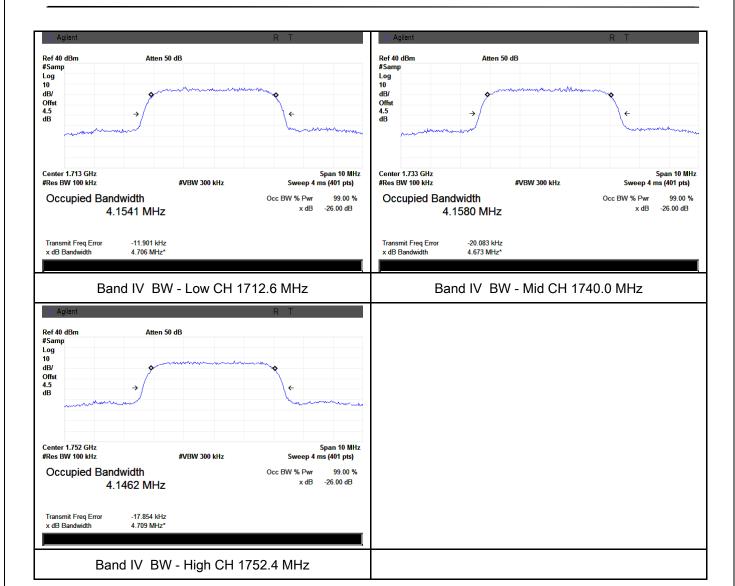


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6.6 Spurious Emissions at Antenna Terminals

Temperature	19°C
Relative Humidity	60%
Atmospheric Pressure	1008mbar
Test date :	January 13, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement Applicable	
§2.1051,		The power of any emission outside of the authorized	
§22.917(a)&	a)	operating frequency ranges must be lower than the	⊽
§24.238(a)		transmitter power (P) by a factor of at least 43 + 10 log	
§ 27.53(h)		(P) dB	
Test Setup		Base Station Spectrum Analyzer	
	-	The EUT was connected to Spectrum Analyzer and Base	e Station
Test Procedure	via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. - Setting RBW as roughly BW/100.		
Remark			
Result	☑ Pa	ss Fail	

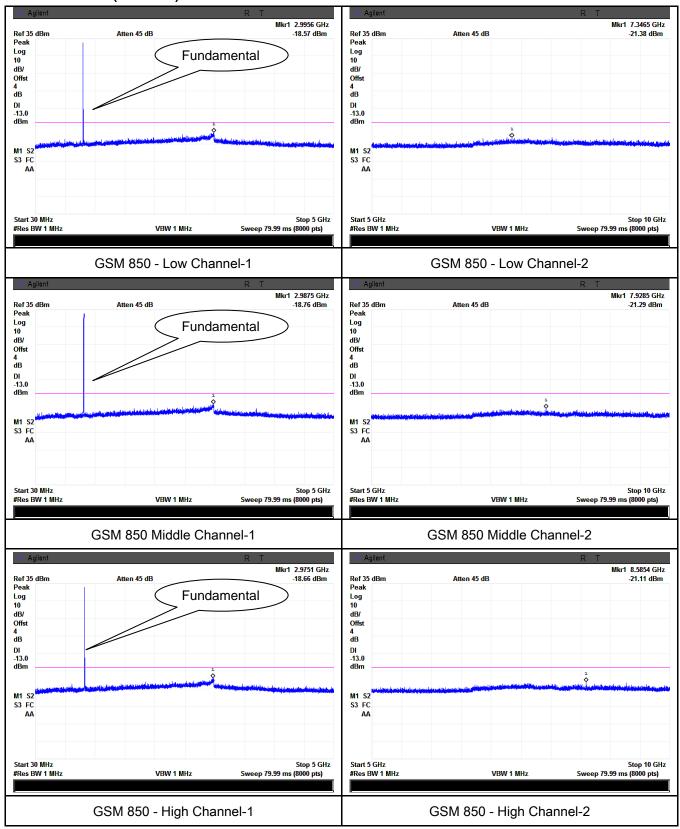
Test Data	Yes	$\square_{N/A}$
Test Plot	Yes (See below)	□ _{N/A}



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Test Plots

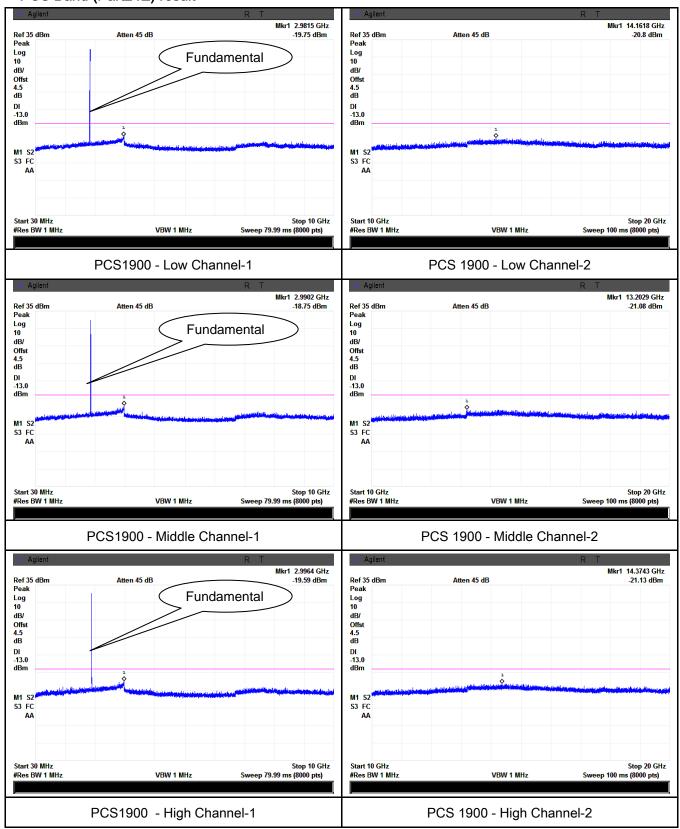
Cellular Band (Part 22H) result





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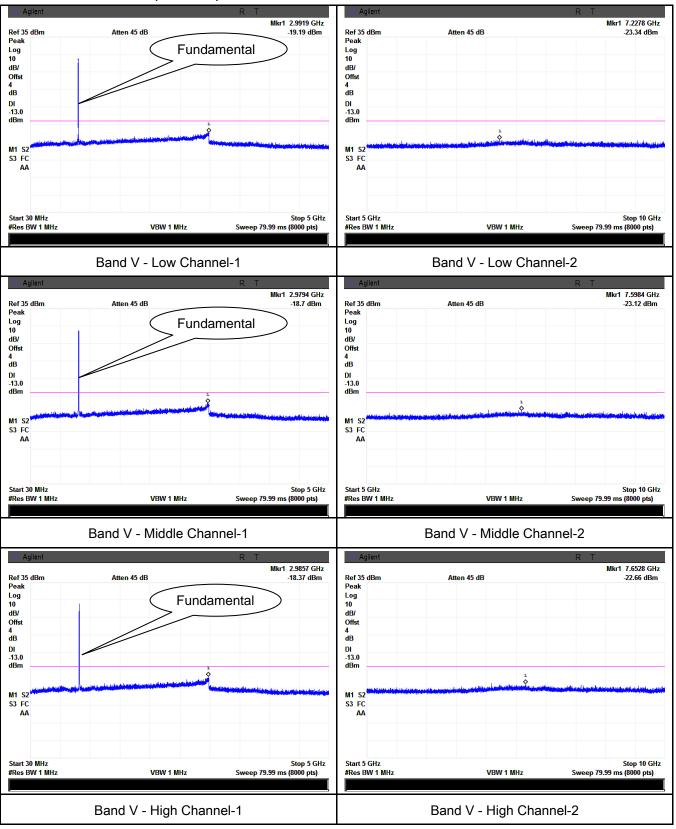
PCS Band (Part24E) result





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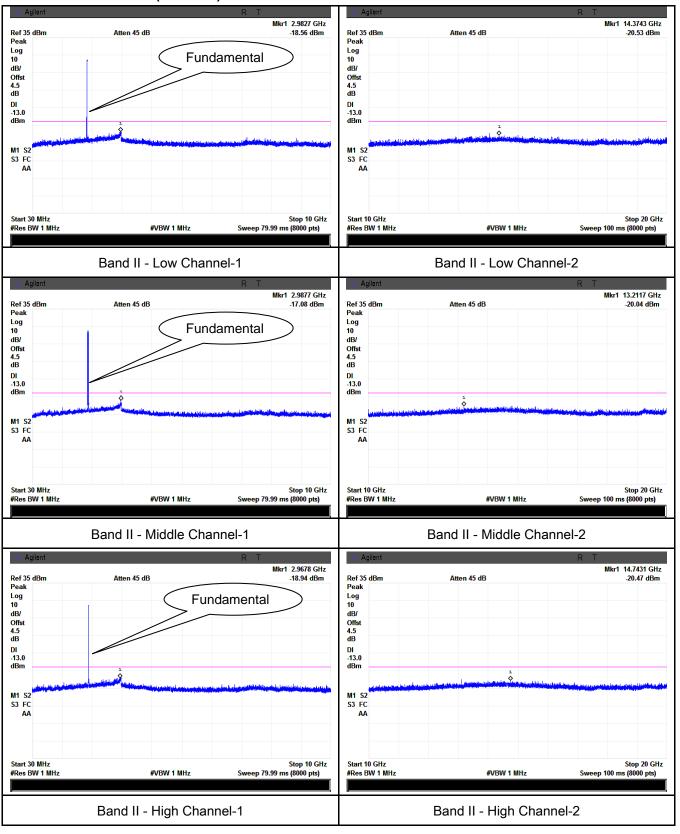
UMTS-FDD Band V (Part 22H)





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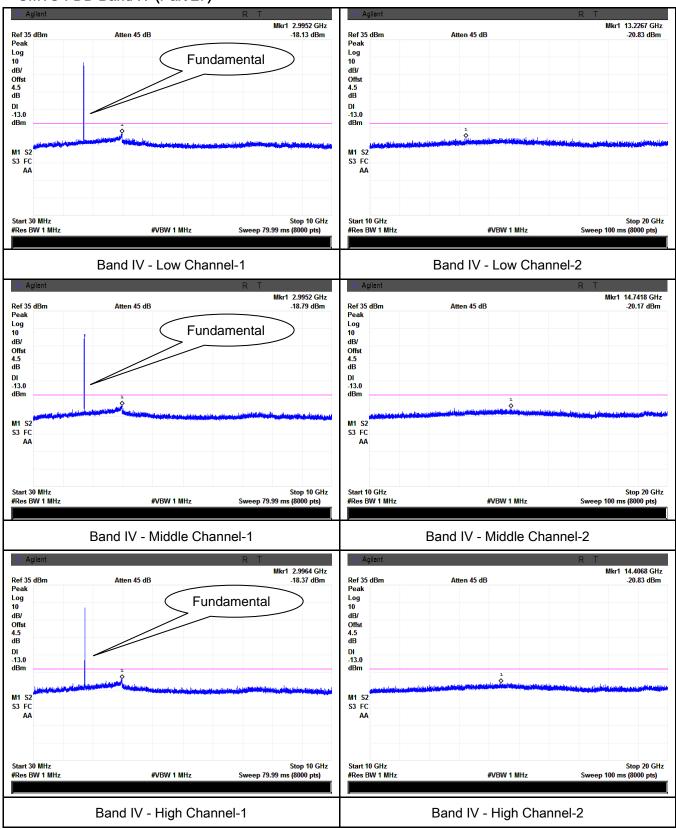
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)





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6.7 Spurious Radiated Emissions

Temperature	19°C
Relative Humidity	60%
Atmospheric Pressure	1011mbar
Test date :	January 19, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	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.	V
Test setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver		
Test Procedure	 The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. 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. 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. Sample Calculation: EUT Field Strength = Raw Amplitude (dBµV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used) 		
Remark			



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Result	Pass	Fail

Test Data Yes

Test Plot Yes (See below)

Cellular Band (Part 22H) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-47.15	V	7.95	0.78	-39.98	-13	-26.98
1648.4	-48.52	Н	7.95	0.78	-41.35	-13	-28.35
422.3	-55.34	V	6.5	0.3	-49.14	-13	-36.14
582.5	-49.62	Н	6.5	0.35	-43.47	-13	-30.47

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-46.76	V	7.95	0.78	-39.59	-13	-26.59
1673.2	-49.7	Η	7.95	0.78	-42.53	-13	-29.53
423.6	-55.69	V	6.5	0.3	-49.49	-13	-36.49
583.6	-48.36	Н	6.5	0.35	-42.21	-13	-29.21

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-45.25	V	7.95	0.78	-38.08	-13	-25.08
1697.6	-47.21	Η	7.95	0.78	-40.04	-13	-27.04
421.7	-55.08	V	6.5	0.3	-48.88	-13	-35.88
584.5	-48.17	Н	6.5	0.35	-42.02	-13	-29.02



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PCS Band (Part24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-49.36	V	10.25	2.73	-41.84	-13	-28.84
3700.4	-48.15	Н	10.25	2.73	-40.63	-13	-27.63
420.8	-55.97	V	6.5	0.3	-49.77	-13	-36.77
581.4	-51.67	Н	6.5	0.35	-45.52	-13	-32.52

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.58	V	10.25	2.73	-42.06	-13	-29.06
3760	-48	Н	10.25	2.73	-40.48	-13	-27.48
424.6	-56.14	V	6.5	0.3	-49.94	-13	-36.94
586.7	-51.95	Н	6.6	0.35	-45.7	-13	-32.7

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-49.03	V	10.36	2.73	-41.4	-13	-28.4
3819.6	-47.95	Н	10.36	2.73	-40.32	-13	-27.32
410.7	-54.88	V	6.5	0.3	-48.68	-13	-35.68
588.4	-51.74	Н	6.6	0.35	-45.49	-13	-32.49



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UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-47.23	V	7.95	0.78	-40.06	-13	-27.06
1652.8	-49.02	Η	7.95	0.78	-41.85	-13	-28.85
310.1	-56.25	V	6.2	0.25	-50.3	-13	-37.3
245.5	-52.47	Н	6.5	0.22	-46.19	-13	-33.19

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-48.04	V	7.95	0.78	-40.87	-13	-27.87
1670	-47.62	Η	7.95	0.78	-40.45	-13	-27.45
312.6	-55.18	V	6.2	0.25	-49.23	-13	-36.23
244.7	-51.63	Н	6.5	0.22	-45.35	-13	-32.35

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-47.34	V	7.95	0.78	-40.17	-13	-27.17
1693.2	-46.84	Н	7.95	0.78	-39.67	-13	-26.67
313.8	-54.55	V	6.4	0.25	-48.4	-13	-35.4
242.7	-51.76	Н	6.4	0.22	-45.58	-13	-32.58



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UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-47.28	V	10.25	2.73	-39.76	-13	-26.76
3704.8	-46.49	Н	10.25	2.73	-38.97	-13	-25.97
313.8	-55.68	V	6.2	0.25	-49.73	-13	-36.73
242.7	-51.75	Н	6.4	0.22	-45.57	-13	-32.57

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-48.12	V	10.25	2.73	-40.6	-13	-27.6
3760	-46.65	Н	10.25	2.73	-39.13	-13	-26.13
315.6	-56.02	V	6.3	0.25	-49.97	-13	-36.97
247.8	-52.13	Н	6.6	0.22	-45.75	-13	-32.75

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-47.58	V	10.36	2.73	-39.95	-13	-26.95
3815.2	-46.32	Н	10.36	2.73	-38.69	-13	-25.69
316.4	-55.63	V	6.3	0.25	-49.58	-13	-36.58
248.1	-51.97	Н	6.7	0.22	-45.49	-13	-32.49



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UMTS-FDD Band IV (Part 27)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3424.8	-48.15	٧	10.07	2.52	-40.6	-13	-27.6
3424.8	-46.23	Н	10.07	2.52	-38.68	-13	-25.68
322.7	-55.34	V	6.3	0.26	-49.3	-13	-36.3
694.2	-52.49	Н	6.9	0.4	-45.99	-13	-32.99

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3480	-47.96	V	10.09	2.52	-40.39	-13	-27.39
3480	-48.75	Н	10.09	2.52	-41.18	-13	-28.18
319.4	-54.02	V	6.3	0.26	-47.98	-13	-34.98
696.5	-51.74	Н	6.9	0.4	-45.24	-13	-32.24

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3505.2	-46.84	V	10.09	2.52	-39.27	-13	-26.27
3505.2	-45.92	Н	10.09	2.52	-38.35	-13	-25.35
321.6	-53.27	٧	6.3	0.26	-47.23	-13	-34.23
695.7	-51.56	Н	6.9	0.4	-45.06	-13	-32.06



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6.8 Band Edge

Temperature	19°C
Relative Humidity	60%
Atmospheric Pressure	1008mbar
Test date :	January 13, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a) § 27.53(h)	a)	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.	V
Test setup		Base Station Spectrum Analyzer EUT	
Procedure	-	The EUT was connected to Spectrum Analyzer and Base S power divider. The Band Edges of low and high channels for the highest R were measured. Setting RBW as roughly BW/100.	
Remark			
Result	✓ Pa	ss Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9775	-14.23	-13
849.0200	-13.23	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1850.0000	-15.75	-13	
1910.0200	-16.48	-13	

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9775	-23.41	-13
849.0200	-23.0	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1850.0000	-22.96	-13	
1910.0200	-26.47	-13	

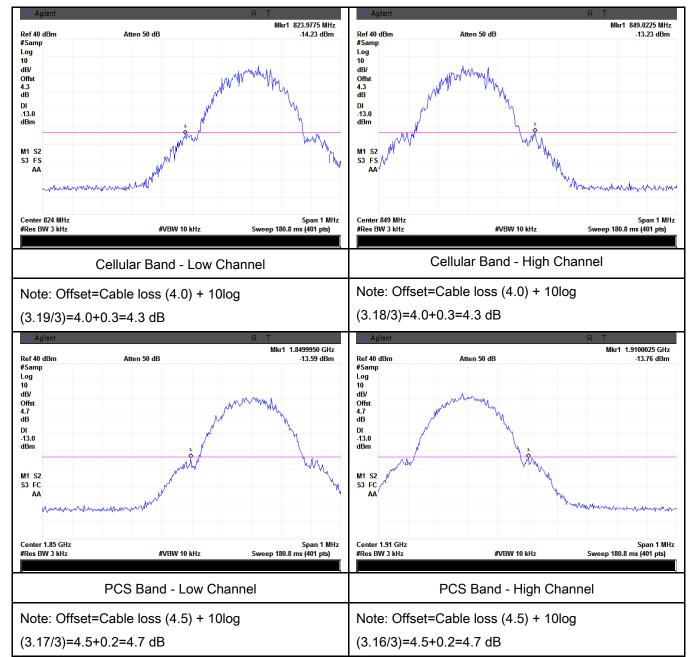
UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1710.0000	-25.02	-13
1755.0000	-23.41	-13



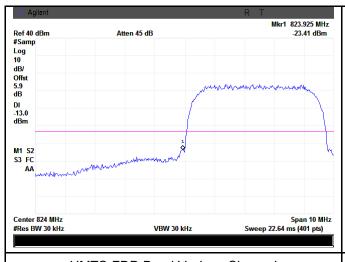
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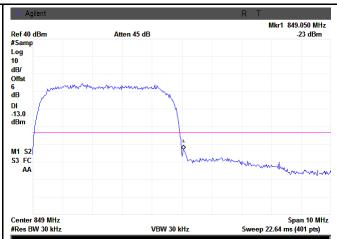
Test Plots





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UMTS-FDD Band V - Low Channel

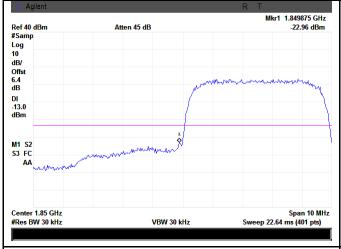
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log

Note: Offset=Cable loss (4.0) + 10log

(46.80/30)=4.0+1.9=5.9 dB

(47.07/30)=4.0+2.0=6.0 dB





UMTS-FDD Band II - Low Channel

UMTS-FDD Band II - High Channel

Note: Offset=Cable loss (4.5) + 10log

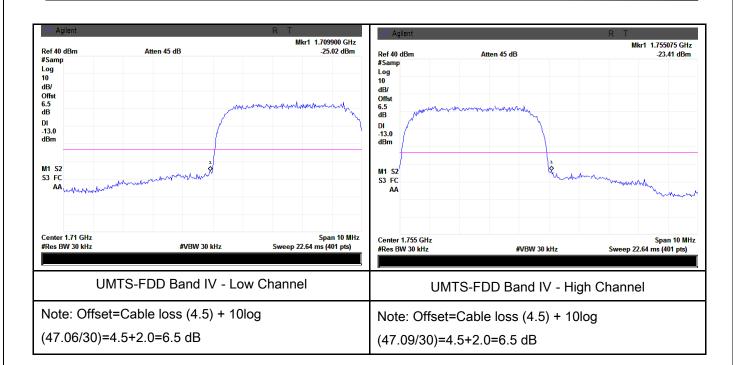
Note: Offset=Cable loss (4.5) + 10log

(46.81/30)=4.5+1.9=6.4 dB

(46.90/30)=4.5+1.9=6.4 dB



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6.9 Frequency Stability

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1009mbar
Test date :	January 15, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement				Applicable
§2.1055, §22.355 & §24.235 § 27.5(h); § 27.54	a)	According to §22.3 the Public Mobile S tolerances given in Frequency Toleran Services Frequency Range (MHz) 25 to 50 50 to 450 450 to 512 821 to 896 928 to 29. 929 to 960. 2110 to 2220 According to §24.2	Base, fixed (ppm) 20.0 5.0 2.5 1.5 5.0 1.5 10.0	it be maintained way: mitters in the Public Mobile ≤ 3 watts (ppm) 20.0 5.0 5.0 2.5 N/A N/A N/A	ic Mobile Mobile ≤ 3 watts (ppm) 50.0 50.0 50.0 2.5 N/A N/A N/A	V
		ensure that the fun frequency block.	damental en	nissions stay withi	n the authorized	
Test setup	Base Station EUT Thermal Chamber					



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	A communication link was established between EUT and base station. The	
	frequency error was monitored and measured by base station under variation	
Procedure	of ambient temperature and variation of primary supply voltage.	
	Limit: The frequency stability of the transmitter shall be maintained within	
	±0.00025% (±2.5ppm) of the center frequency.	
Remark		
Result	Pass Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	✓ _{N/A}



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Cellular Band (Part 22H) result

	Middle Channel, f _o = 836.6 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		21	0.0251	2.5	
0		19	0.0227	2.5	
10	3.7	17	0.0203	2.5	
20		11	0.0131	2.5	
30		15	0.0179	2.5	
40		20	0.0239	2.5	
50		25	0.0299	2.5	
55		32	0.0383	2.5	
25 —	4.2	21	0.0251	2.5	
	3.5	24	0.0287	2.5	

PCS Band (Part 22H) result

. 30 20	1 00 Bana (1 art 2211) 100ait				
	Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		27	0.0144	2.5	
0		21	0.0112	2.5	
10		17	0.0090	2.5	
20	3.7	11	0.0059	2.5	
30		18	0.0096	2.5	
40		21	0.0112	2.5	
50		24	0.0128	2.5	
55		27	0.0144	2.5	
25	4.2	20	0.0106	2.5	
25	3.5	23	0.0122	2.5	



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UMTS-FDD Band V (Part 22H)

	Middle Channel, f₀ = 835 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		19	0.0228	2.5	
0	3.7	16	0.0192	2.5	
10		12	0.0144	2.5	
20		8	0.0096	2.5	
30		11	0.0132	2.5	
40		17	0.0204	2.5	
50		20	0.0240	2.5	
55		21	0.0251	2.5	
25	4.2	18	0.0216	2.5	
25	3.5	14	0.0168	2.5	

UMTS-FDD Band II (Part 24E)

	Middle Channel, f₀ = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		12	0.0064	2.5	
0		11	0.0059	2.5	
10	3.7	7	0.0037	2.5	
20		6	0.0032	2.5	
30		9	0.0048	2.5	
40		13	0.0069	2.5	
50		15	0.0080	2.5	
55		20	0.0106	2.5	
0.5	4.2	7	0.0037	2.5	
25	3.5	9	0.0048	2.5	



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UMTS-FDD Band IV (Part 27)

	Middle Channel, f₀ = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		10	0.0053	2.5	
0		9	0.0048	2.5	
10	3.7	5	0.0027	2.5	
20		3	0.0016	2.5	
30		6	0.0032	2.5	
40		8	0.0043	2.5	
50		9	0.0048	2.5	
55		12	0.0064	2.5	
25	4.2	11	0.0059	2.5	
20	3.5	14	0.0074	2.5	



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Annex A. TEST INSTRUMENT

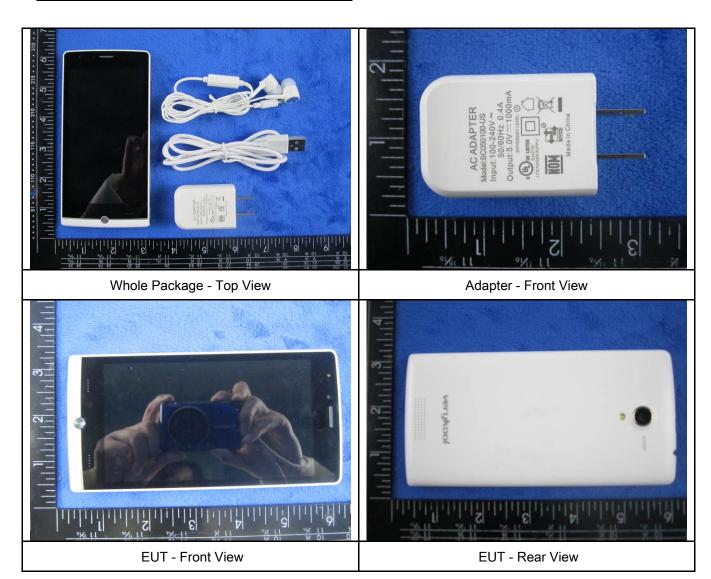
Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/17/2014	09/16/2015	V
Power Splitter	1#	1#	09/02/2014	09/01/2015	V
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	V
Temperature/Humidity Chamber	UHL-270	001	10/10/2014	10/09/2015	•
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	•
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	•
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	V
Microwave Preamplifier (0.5 ~ 18GHz)	PAM-118	443008	09/02/2014	09/01/2015	✓
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	✓
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/22/2014	09/21/2015	•
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/25/2014	09/24/2015	✓
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	\
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/18/2014	09/17/2015	V
Tunable Notch Filter	3NF- 800/1000-S	AA4	09/02/2014	09/01/2015	V
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	09/02/2014	09/01/2015	V



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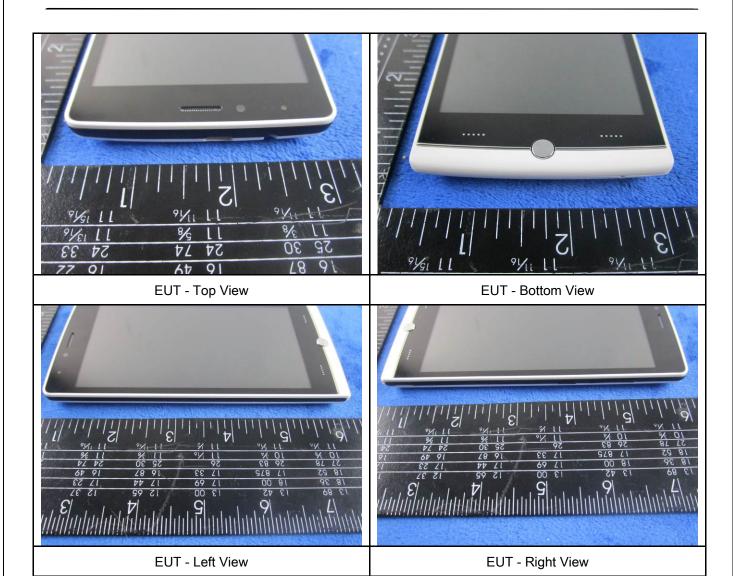
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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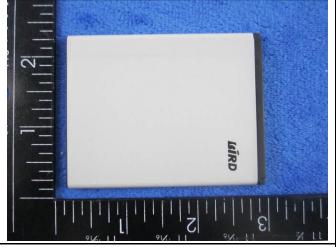
Annex B.ii. Photograph: EUT Internal Photo

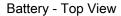




Cover Off - Top View 1

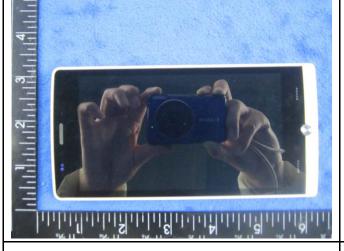
Cover Off - Top View 2







Battery - Bottom View



LCD - Front View



LCD - Rear View



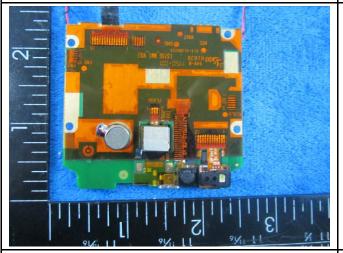
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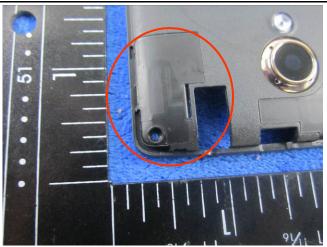
Mainborad With Shielding - Front View



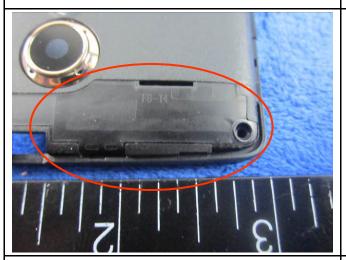
Mainborad Without Shielding - Front View



Mainborad - Rear View



BT/BLE/WIFI Antenna View

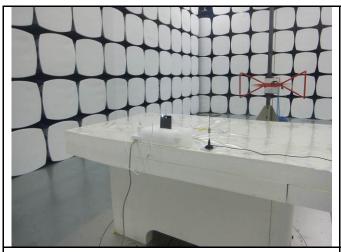


GSM/PCS/UMTS-FDD Antenna View

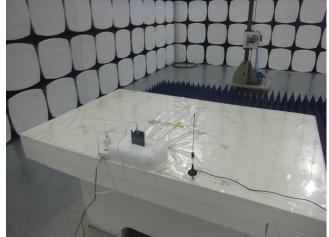


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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

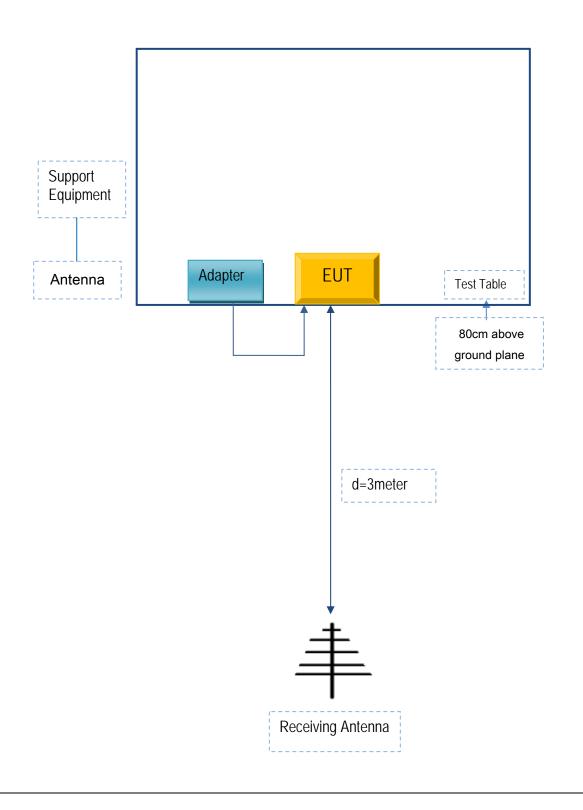


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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Annex C.ii. EUT OPERATING CONKITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.
Others Testing	The EUT was communicating with base station and set to work at maximum output power.



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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

N/A