RF TEST REPORT



Report No.: 14070674-FCC-R1
Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile Pho	Mobile Phone		
Model No.	s4010			
Serial No.	N/A			
Test Standard		FCC Part 22(H). FCC Part 24(E), FCC Part 27: 2014; ANSI/TIA C603 D: 2010		
Test Date	December 26, 2014 to January 05, 2015			
Issue Date	January 06, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Justin Wang Alex. Lin				
Dustin Wang Test Engineer		Alex Liu Checked By		

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

Issued by:

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Laboratories Introduction

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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
14070674-FCC-R1	NONE	Original	January 06, 2015

2. Customer information

Applicant Name	Verykool USA Inc	
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA	
Manufacturer	ZTE Supply Chain Co., Ltd	
Manufacturer Add	6/F, South Wing, WanDelai Building, Block29, Keji Road South, Hi-Tech Park,	
	Nanshan District, Shenzhen ,P.R. 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: s4010

Serial Model: N/A

Date EUT received: December 05, 2014

Test Date(s): December 26, 2014 to January 05, 2015

Equipment Category: PCE

UMTS-FDD Band V/GSM850: 0.7 dBi

UMTS-FDD Band II: 1.5 dBi

UMTS-FDD Band IV: 1.8 dBi Antenna Gain:

PCS1900: 1.1 dBi

Bluetooth/BLE: 2.4 dBi

WIFI: 2.4 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: 33.58 dBm

PCS1900: 30.61 dBm

Maximum Conducted

AV Power to Antenna:

UMTS-FDD Band V: 23.95 dBm

UMTS-FDD Band II: 23.91 dBm

UMTS-FDD Band IV: 23.11 dBm

GSM850: 25.61 dBm / ERP

PCS1900: 22.90 dBm / EIRP

ERP/EIRP: UMTS-FDD Band V: 19.06 dBm / ERP

UMTS-FDD Band II: 18.90 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: 394760

Spec: 3.7V 1400mAh

Limited charger voltage: 4.2V

Input Power:

Adapter:

Model: UC26A50100

Input: AC 100-240V; 50/60Hz 150mA

Output: DC 5.0V; 0.5A

Trade Name : verykool

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

FCC ID: WA6S4010



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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 Antonina Torrigal	Campliana	
§ 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance	
§ 2.1053; § 22.917(a);	Field Chromath of Counieus Dediction	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	Camplianas	
§ 27.53(h)	Out of band emission, Band Edge	Compliance	
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. temperature	0	
§ 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: 14070674-FCC-H.



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6.2 RF Output Power

Temperature	23°C
Relative Humidity	53%
Atmospheric Pressure	1004mbar
Test date :	January 04, 2015
Tested By :	Dustin Wang

Requirement(s):

Requirement(s):						
Spec	Item	Requirement Applicable				
§22.913 (a)	a)	ERP:38.45dBm				
§24.232 (c)	b)	IRP:33dBm				
§27.50 (c)	c)	EIRP: 30dBm	>			
Test Setup		EUT Base Station				
	Fo	or Conducted Power:				
	-	The transmitter output port was connected to base stat	ion.			
	-	Set EUT at maximum power through base station.				
	- Select lowest, middle, and highest channels for each ba					
		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 fundamen						
		frequency was investigated.				
	- Remove the EUT and replace it with substitution antenna. A signal					



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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	33.48	33.58	33.53	33±1	30.61	30.58	30.52	30±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	33.36	33.34	33.35	33±1	30.76	30.57	30.52	30±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	32.42	32.43	32.38	32±1	29.69	29.62	29.46	29±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK (4 uplink),GMSK	29.79	29.82	29.72	29±1	27.04	26.98	26.93	27±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	33.38	33.39	33.38	33±1	30.62	30.58	30.45	30±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	32.49	32.48	32.47	32±1	29.65	29.62	29.58	29±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	29.79	29.84	29.81	29±1	27.05	26.98	26.96	27±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	33.28	33.33	33.35	33±1	30.78	30.69	30.62	30±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	32.37	32.42	32.43	32±1	29.73	29.66	29.58	29±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	29.74	29.78	29.68	29±1	27.05	26.96	26.95	27±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)
garanen g	4132	826.4	23.84
RMC	4175	835.0	23.91
12.2kbps	4233	846.6	23.93
	4132	826.4	23.85
HSDPA	4175	835.0	23.92
Subtest1	4233	846.6	23.95
	4132	826.4	23.83
HSDPA	4175	835.0	22.89
Subtest2	4233	846.6	23.91
	4132	826.4	23.81
HSDPA	4175	835.0	23.90
Subtest3	4233	846.6	23.93
LIODDA	4132	826.4	23.83
HSDPA	4175	835.0	23.92
Subtest4	4233	846.6	23.93
LICLIDA	4132	826.4	23.83
HSUPA Subtest1	4175	835.0	23.91
Sublesti	4233	846.6	23.91
LICLIDA	4132	826.4	23.80
HSUPA Subtest2	4175	835.0	23.92
Sublesiz	4233	846.6	23.90
LICLIDA	4132	826.4	23.81
HSUPA Subtest3	4175	835.0	22.89
Sublesis	4233	846.6	23.91
HSUPA	4132	826.4	22.79
Subtest4	4175	835.0	23.89
Jubiesi4	4233	846.6	23.91
HCLIDA	4132	826.4	23.82
HSUPA Subtest5	4175	835.0	23.92
Jubiesia	4233	846.6	23.88



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UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	
DMO	9262	1852.4	23.91	
RMC	9400	1880.0	22.95	
12.2kbps	9538	1907.6	22.74	
LICDDA	9262	1852.4	23.89	
HSDPA Subtoat1	9400	1880.0	22.93	
Subtest1	9538	1907.6	22.69	
LIODEA	9262	1852.4	23.88	
HSDPA	9400	1880.0	22.91	
Subtest2	9538	1907.6	22.67	
	9262	1852.4	22.86	
HSDPA	9400	1880.0	22.88	
Subtest3	9538	1907.6	22.68	
	9262	1852.4	23.87	
HSDPA	9400	1880.0	22.93	
Subtest4	9538	1907.6	22.71	
HOUDA	9262	1852.4	23.88	
HSUPA	9400	1880.0	22.69	
Subtest1	9538	1907.6	22.66	
HOURA	9262	1852.4	23.88	
HSUPA	9400	1880.0	22.89	
Subtest2	9538	1907.6	22.67	
LIGUIDA	9262	1852.4	23.86	
HSUPA	9400	1880.0	22.91	
Subtest3	9538	1907.6	22.68	
LICUIDA	9262	1852.4	23.89	
HSUPA Subtest4	9400	1880.0	22.91	
Sublest4	9538	1907.6	22.70	
LICUIDA	9262	1852.4	23.85	
HSUPA Subtost5	9400	1880.0	22.87	
Subtest5	9538	1907.6	22.65	



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UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
RMC	1313	1712.6	23.11
12.2kbps	1413	1732.6	23.08
12.2kbps	1512	1752.4	23.03
LICDDA	1313	1712.6	23.09
HSDPA Subtest1	1413	1732.6	23.07
Sublest	1512	1752.4	23.01
LICDDA	1313	1712.6	23.08
HSDPA Subtest2	1413	1732.6	23.07
Sublesiz	1512	1752.4	23.02
LIODDA	1313	1712.6	23.10
HSDPA Subtest3	1413	1732.6	23.06
	1512	1752.4	23.02
LIODDA	1313	1712.6	23.09
HSDPA Subtest4	1413	1732.6	23.05
Sublesi4	1512	1752.4	22.98
LICLIDA	1313	1712.6	23.02
HSUPA Subtest1	1413	1732.6	23.04
Sublest i	1512	1752.4	22.99
LICLIDA	1313	1712.6	23.05
HSUPA Subtest2	1413	1732.6	23.04
Sublesiz	1512	1752.4	22.98
LICLIDA	1313	1712.6	23.06
HSUPA Subtest3	1413	1732.6	23.02
Sublesis	1512	1752.4	22.97
HOLIDA	1313	1712.6	23.03
HSUPA Subtest4	1413	1732.6	23.01
Jubiesi4	1512	1752.4	22.96
HOLIDA	1313	1712.6	23.02
HSUPA Subtest5	1413	1732.6	22.98
Sublesio	1512	1752.4	22.95



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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	17.66	V	6.8	0.53	23.93	38.45
824.2	19.34	Н	6.8	0.53	25.61	38.45
836.6	17.28	V	6.8	0.53	23.55	38.45
836.6	18.89	Н	6.8	0.53	25.16	38.45
848.8	17.39	V	6.9	0.53	23.76	38.45
848.8	19.48	Н	6.9	0.53	25.85	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	14.23	V	7.88	0.85	21.26	33
1850.2	15.38	Н	7.88	0.85	22.41	33
1880	14.41	V	7.88	0.85	21.44	33
1880	15.45	Н	7.88	0.85	22.48	33
1909.8	14.19	V	7.86	0.85	21.20	33
1909.8	15.89	Н	7.86	0.85	22.90	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	12.34	V	6.8	0.53	18.61	38.45
826.4	12.53	Н	6.8	0.53	18.80	38.45
835	12.64	V	6.8	0.53	18.91	38.45
835	12.78	Н	6.8	0.53	19.05	38.45
846.6	12.69	V	6.9	0.53	19.06	38.45
846.6	12.57	Н	6.9	0.53	18.94	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	10.97	V	7.88	0.85	18.0	33
1852.4	11.79	Н	7.88	0.85	18.82	33
1880	11.03	V	7.88	0.85	18.06	33
1880	11.87	Н	7.88	0.85	18.90	33
1907.6	10.9	V	7.86	0.85	17.91	33
1907.6	11.31	Н	7.86	0.85	18.32	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	11.49	Н	7.76	0.82	18.43	30
1740	10.62	V	7.76	0.82	17.56	30
1740	11.44	Н	7.76	0.82	18.38	30
1752.6	11.2	V	7.74	0.82	18.12	30
1752.6	10.78	Н	7.74	0.82	17.70	30



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6.3 Peak-Average Ratio

Temperature	23°C
Relative Humidity	53%
Atmospheric Pressure	1004mbar
Test date :	January 04, 2015
Tested By:	Dustin Wang

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d) § 27.50(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	V
Test Setup	B	ase Station Spectrum Analyzer EUT	
Test Procedure	According with KDB 971168 1. The signal analyzer's CCDF measurement profile is enabled 2. Frequency = carrier center frequency 3. Measurement BW > Emission bandwidth of signal 4. The signal analyzer was set to collect one million samples to generate the CCDF curve 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power		
Remark			
Result	▽ Pa	ss Fail	

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



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WCDMA1900

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	30.8	30.7	0.1
1880	30.8	30.6	0.2
1909.8	30.7	30.6	0.1

PCS1900

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	25.7	22.91	2.79
1880	25.46	22.23	3.23
1907.6	24.21	21.32	2.89

WCDMA1700

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.6	25.47	22.3	3.17
1732.6	24.69	21.57	3.12
1752.4	22.25	21.98	0.27



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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	24°C
Relative Humidity	54%
Atmospheric Pressure	1005mbar
Test date :	January 05, 2015
Tested By:	Dustin Wang

Requirement(s):

Spec	Item	Item Requirement Applicable	
§2.1049, §22.917,	a)	99% Occupied Bandwidth(kHz)	V
§22.905 §24.238 §27.53(a)	b)	26 dB Bandwidth(kHz)	V
Test Setup	Base Station Spectrum Analyzer EUT		
Test Procedure	 The EUT was connected to Spectrum Analyzer and Base Station via power divider. The 99% and 26 dB occupied bandwidth (BW) of the middle 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	247.8148	321.282
190	836.6	246.6075	315.497
251	848.8	246.0788	318.610

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.2077	316.181
661	1880.0	246.3862	315.971
810	1909.8	245.3975	317.170

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1556	4.700
4175	835.0	4.1506	4.717
4233	846.6	4.1649	4.728

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1854	4.795
9400	1880.0	4.1541	4.707
9538	1907.6	4.1665	4.701

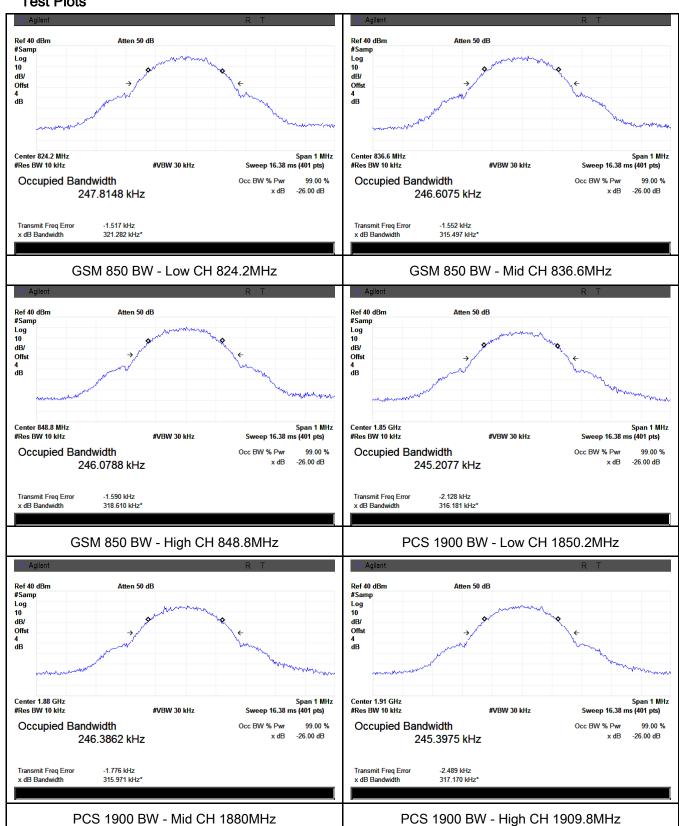
UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1712.4	4.1634	4.721
1413	1732.6	4.1581	4.728
1512	1752.6	4.1662	4.722



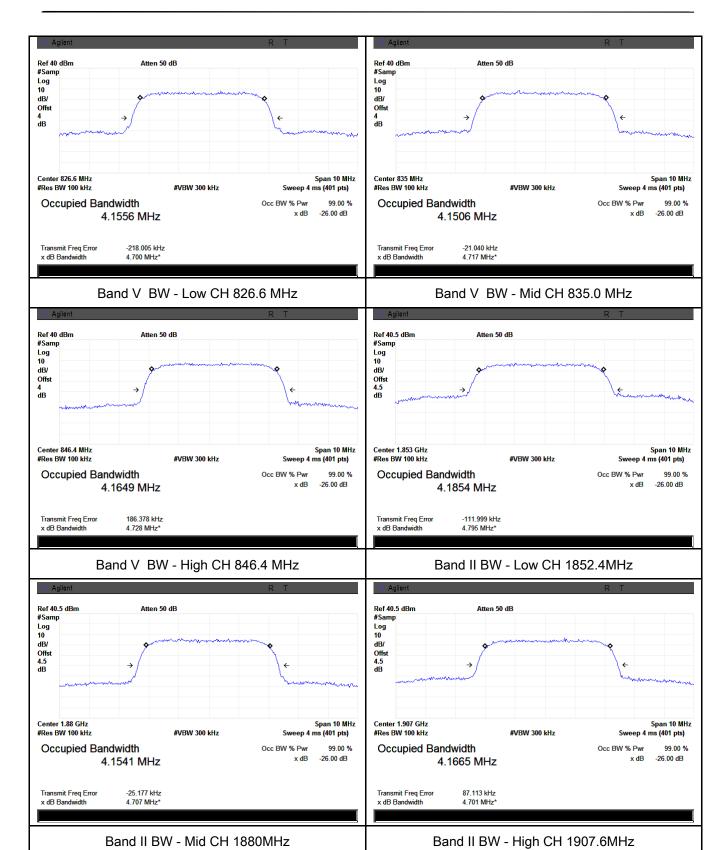
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Test Plots



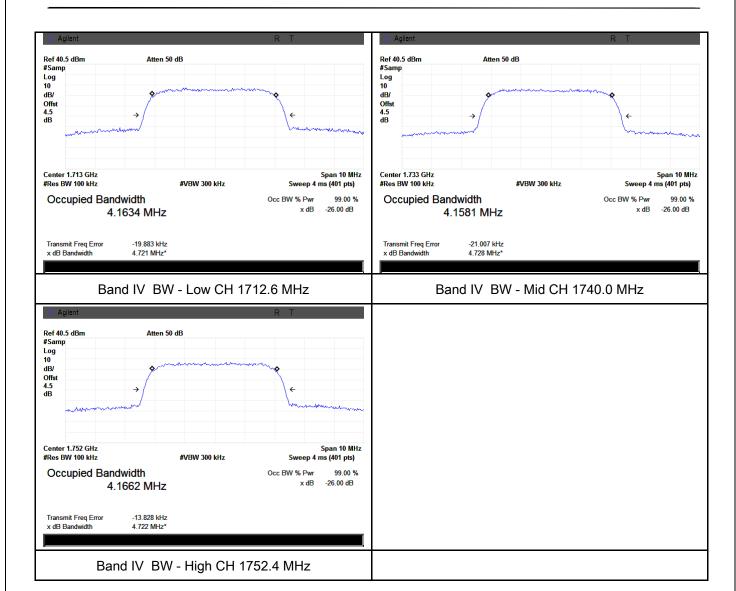


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6.6 Spurious Emissions at Antenna Terminals

Temperature	24°C
Relative Humidity	54%
Atmospheric Pressure	1005mbar
Test date :	January 05, 2015
Tested By :	Dustin Wang

Requirement(s):

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

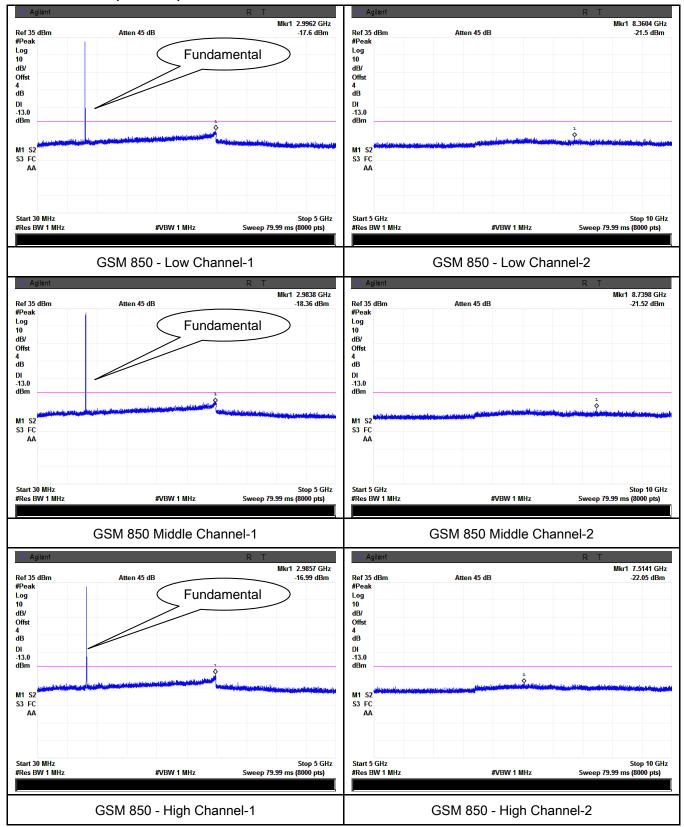
Test Data	Yes	$\square_{N/A}$
Test Plot	Yes (See below)	□ _{N/A}



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Test Plots

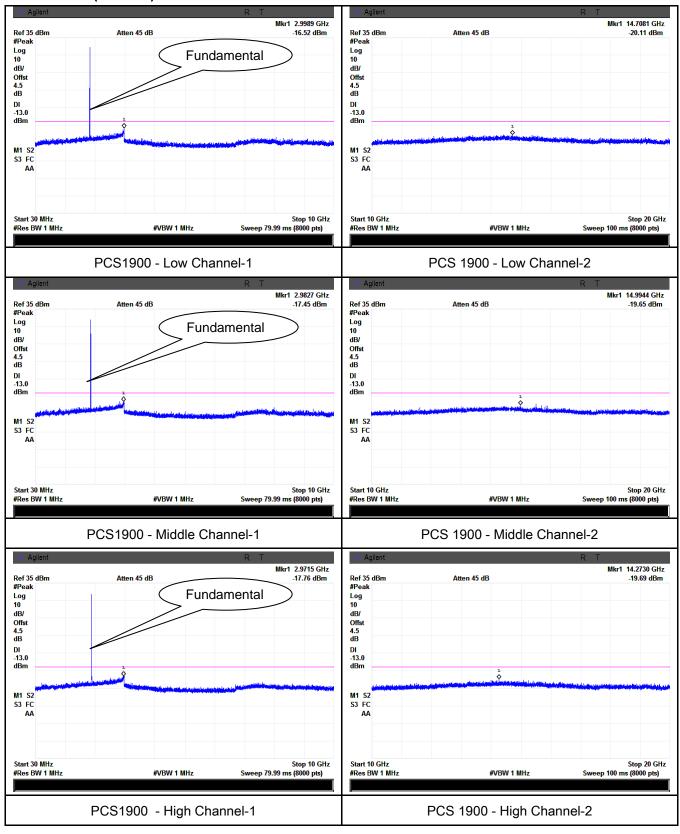
Cellular Band (Part 22H) result





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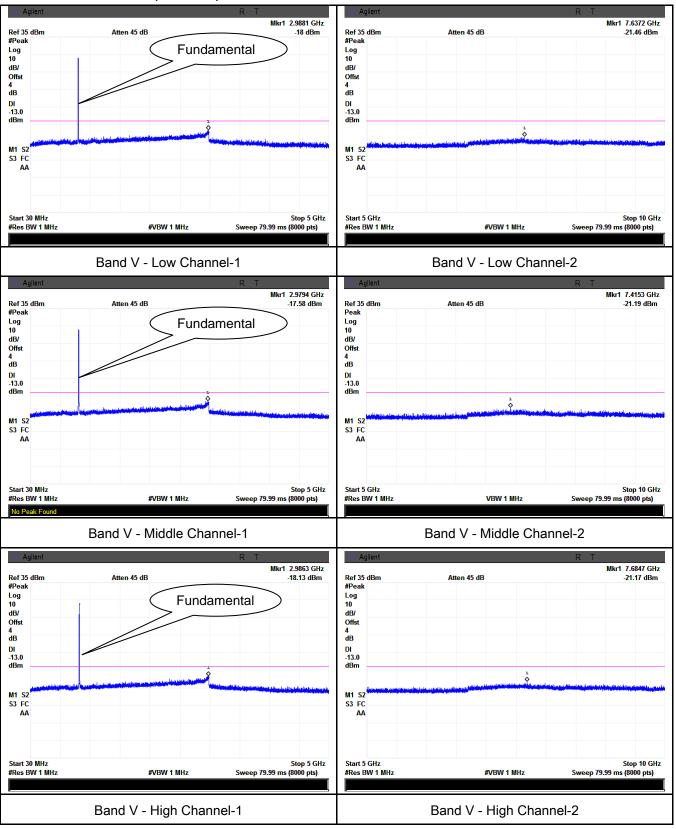
PCS Band (Part24E) result





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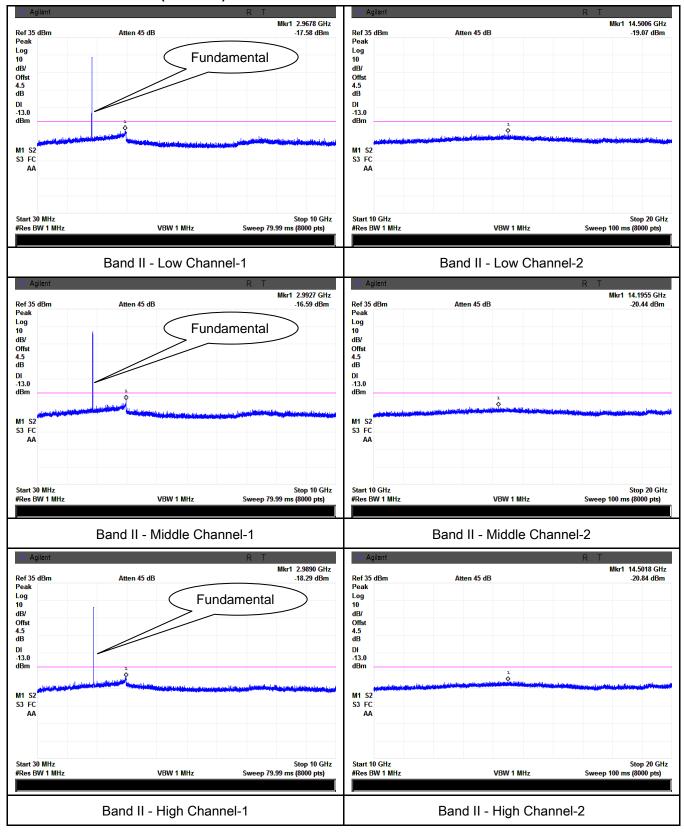
UMTS-FDD Band V (Part 22H)





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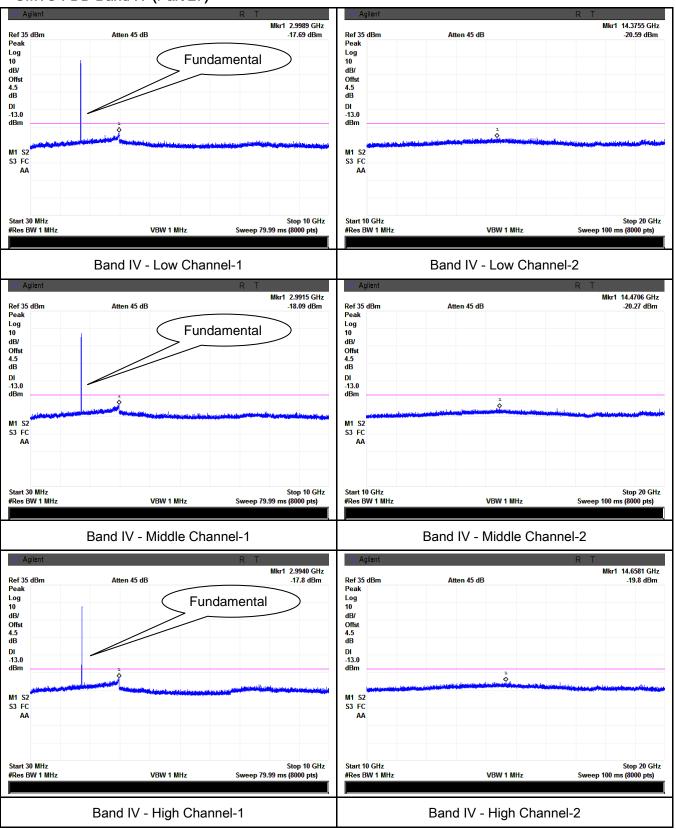
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)





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6.7 Spurious Radiated Emissions

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1007mbar
Test date :	December 26, 2014
Tested By :	Dustin Wang

Requirement(s):

Requirement(s):		T	i
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.	~
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	-41.59	V	7.95	0.78	-34.42	-13	-21.42
1648.4	-42.57	Н	7.95	0.78	-35.40	-13	-22.40
324.8	-52.78	V	6.40	0.26	-46.64	-13	-33.64
715.2	-50.16	Н	6.80	0.41	-43.77	-13	-30.77

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	-41.74	V	7.95	0.78	-34.57	-13	-21.57
1673.2	-42.26	Η	7.95	0.78	-35.09	-13	-22.09
324.5	-53.61	V	6.40	0.26	-47.47	-13	-34.47
716.4	-50.27	Н	6.80	0.41	-43.88	-13	-30.88

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	-41.81	V	7.95	0.78	-34.64	-13	-21.64
1697.6	-42.89	Н	7.95	0.78	-35.72	-13	-22.72
325.6	-54.22	V	6.40	0.26	-48.08	-13	-35.08
714.7	-50.94	Н	6.80	0.41	-44.55	-13	-31.55



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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	-49.86	V	10.25	2.73	-42.34	-13	-29.34
3700.4	-47.24	Н	10.25	2.73	-39.72	-13	-26.72
324.1	-54.32	V	6.40	0.26	-48.18	-13	-35.18
715.9	-51.05	Н	6.80	0.41	-44.66	-13	-31.66

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	-50.24	V	10.25	2.73	-42.72	-13	-29.72
3760	-48.64	Н	10.25	2.73	-41.12	-13	-28.12
326.5	-54.67	V	6.40	0.26	-48.53	-13	-35.53
716.3	-51.28	Н	6.80	0.41	-44.89	-13	-31.89

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	-49.95	V	10.36	2.73	-42.32	-13	-29.32
3819.6	-47.55	Н	10.36	2.73	-39.92	-13	-26.92
324.3	-54.31	V	6.40	0.26	-48.17	-13	-35.17
713.5	-51.48	Н	6.80	0.41	-45.09	-13	-32.09



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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	-46.49	V	7.95	0.78	-39.32	-13	-26.32
1652.8	-44.28	Н	7.95	0.78	-37.11	-13	-24.11
326.7	-55.29	V	6.40	0.26	-49.15	-13	-36.15
716.2	-51.73	Н	6.80	0.41	-45.34	-13	-32.34

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	-48.57	V	7.95	0.78	-41.40	-13	-28.40
1670	-47.63	Η	7.95	0.78	-40.46	-13	-27.46
327.1	-54.82	V	6.40	0.26	-48.68	-13	-35.68
717.3	-51.92	Н	6.80	0.41	-45.53	-13	-32.53

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	-48.69	V	7.95	0.78	-41.52	-13	-28.52
1693.2	-47.28	Н	7.95	0.78	-40.11	-13	-27.11
323.1	-54.72	V	6.40	0.26	-48.58	-13	-35.58
714.9	-51.28	Н	6.80	0.41	-44.89	-13	-31.89



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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	-47.95	V	10.25	2.73	-40.43	-13	-27.43
3704.8	-50.06	Н	10.25	2.73	-42.54	-13	-29.54
323.8	-54.78	V	6.40	0.26	-48.64	-13	-35.64
716.5	-51.53	Н	6.80	0.41	-45.14	-13	-32.14

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	-48.24	V	10.25	2.73	-40.72	-13	-27.72
3760	-50.21	Н	10.25	2.73	-42.69	-13	-29.69
327.3	-55.1	V	6.40	0.26	-48.96	-13	-35.96
714.8	-51.45	Н	6.80	0.41	-45.06	-13	-32.06

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	-48.12	V	10.36	2.73	-40.49	-13	-27.49
3815.2	-49.84	Н	10.36	2.73	-42.21	-13	-29.21
326.7	-55.02	V	6.40	0.26	-48.88	-13	-35.88
713.6	-49.93	Н	6.80	0.41	-43.54	-13	-30.54



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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	-45.71	V	10.07	2.52	-38.16	-13	-25.16
3424.8	-44.54	Н	10.07	2.52	-36.99	-13	-23.99
316.4	-55.37	V	6.30	0.26	-49.33	-13	-36.33
706.4	-51.27	Н	6.80	0.4	-44.87	-13	-31.87

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	-48.25	V	10.09	2.52	-40.68	-13	-27.68
3480	-49.54	Н	10.09	2.52	-41.97	-13	-28.97
315.8	-53.47	V	6.30	0.26	-47.43	-13	-34.43
705.3	-52.14	Н	6.80	0.40	-45.74	-13	-32.74

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	-45.68	V	10.09	2.52	-38.11	-13	-25.11
3505.2	-46.76	Н	10.09	2.52	-39.19	-13	-26.19
314.7	-54.27	V	6.30	0.26	-48.23	-13	-35.23
707.4	-52.29	Н	6.80	0.40	-45.89	-13	-32.89



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6.8 Band Edge

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1007mbar
Test date :	December 26, 2014
Tested By :	Dustin Wang

Requirement(s):

Snoo	Itom	Paguirament	Applicable
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.	~
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	-14.03	-13
849.0200	-13.75	-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	-19.06	-13	
849.0200	-23.97	-13	

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1850.0000	-20.99	-13	
1910.0200	-22.24	-13	

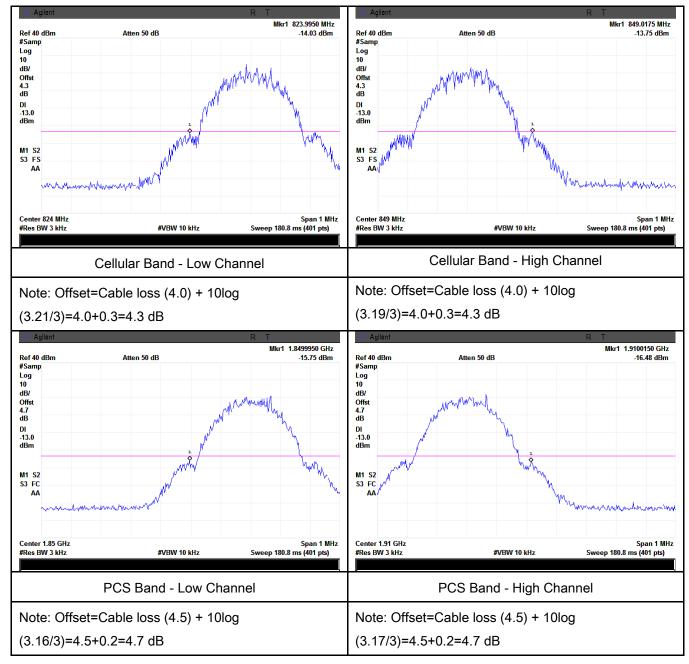
UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1710.0000	-24.67	-13	
1755.0000	-24.74	-13	



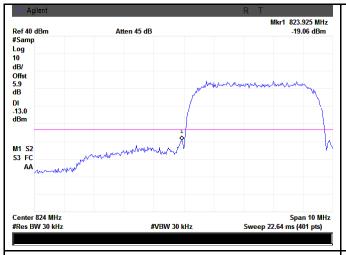
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Test Plots





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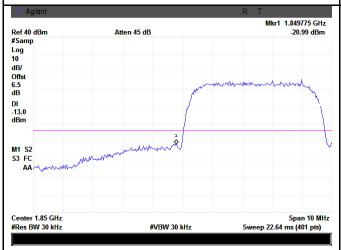
UMTS-FDD Band V - Low Channel

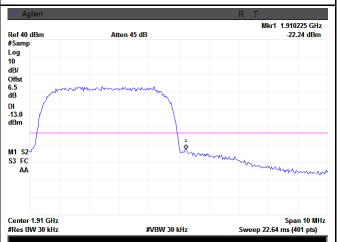
UMTS-FDD Band V - High Channel

Note: Offset=Cable loss (4.0) + 10log (47.00/30)=4.0+1.9=5.9 dB

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

(47.28/30)=4.0+2.0=6 dB





UMTS-FDD Band II - Low Channel

UMTS-FDD Band II - High Channel

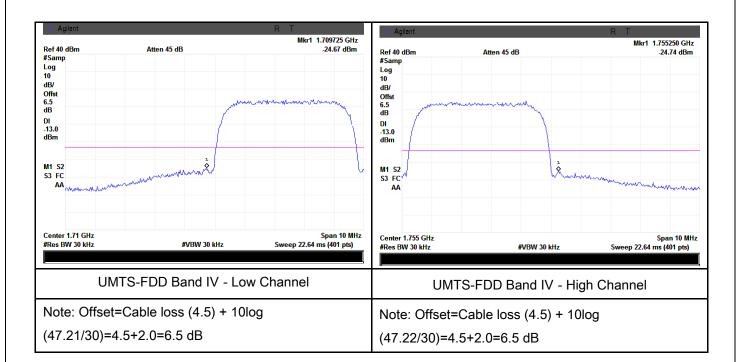
Note: Offset=Cable loss (4.5) + 10log (47.95/30)=4.5+2.0=6.5 dB

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

(47.01/30)=4.5+2.0=6.5 dB



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6.9 Frequency Stability

Temperature	22°C
Relative Humidity	53%
Atmospheric Pressure	1012mbar
Test date :	December 31, 2014
Tested By :	Dustin Wang

Requirement(s):

Spec	Item	Requirement				Applicable
		According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below: Frequency Tolerance for Transmitters in the Public Mobile Services Frequency Base, Mobile ≤ 3 Mobile ≤ 3				
§2.1055,		Range	fixed	watts	watts	
§22.355 &		(MHz)	(ppm)	(ppm)	(ppm)	
•	2)	25 to 50	20.0	20.0	50.0	
§24.235 a)	50 to 450	5.0	5.0	50.0	~	
§ 27.5(h);		450 to 512	2.5	5.0	5.0	
§ 27.54		821 to 896	1.5	2.5	2.5	
		928 to 929.	5.0	N/A	N/A	
		929 to 960.	1.5	N/A	N/A	
		2110 to 2220	10.0	N/A	N/A	
		According to §24.2	35, the frequ	ency stability sha	I be sufficient to	
		ensure that the fun	damental en	nissions stay withi	n the authorized	
		frequency block.				
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
25	3.5	24	0.0287	2.5

PCS Band (Part 22H) result

	1 OO Band (1 art 2211) result				
	Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		29	0.0154	2.5	
0		21	0.0112	2.5	
10	3.7	19	0.0101	2.5	
20		12	0.0064	2.5	
30		18	0.0096	2.5	
40		21	0.0112	2.5	
50		24	0.0128	2.5	
55		28	0.0149	2.5	
25	4.2	22	0.0117	2.5	
25	3.5	25	0.0133	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		17	0.0204	2.5
0		13	0.0156	2.5
10	3.7	11	0.0132	2.5
20		10	0.0120	2.5
30		13	0.0156	2.5
40		16	0.0192	2.5
50		20	0.0240	2.5
55		23	0.0275	2.5
25	4.2	19	0.0228	2.5
25	3.5	15	0.0180	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		14	0.0074	2.5	
0		12	0.0064	2.5	
10	3.7	8	0.0043	2.5	
20		5	0.0027	2.5	
30		7	0.0037	2.5	
40		13	0.0069	2.5	
50		15	0.0080	2.5	
55		19	0.0101	2.5	
25	4.2	8	0.0043	2.5	
25	3.5	11	0.0059	2.5	



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UMTS-FDD Band IV (Part 27)

	Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		10	0.0053	2.5	
0		7	0.0037	2.5	
10	3.7	5	0.0027	2.5	
20		4	0.0021	2.5	
30		6	0.0032	2.5	
40		7	0.0037	2.5	
50		9	0.0048	2.5	
55		14	0.0074	2.5	
25	4.2	12	0.0064	2.5	
20	3.5	15	0.0080	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	✓
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	V
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	>
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	V
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	✓
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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EUT - Top View

EUT - Bottom View



EUT - Left View



EUT - Right View



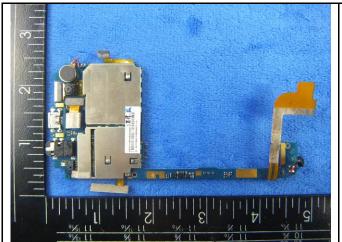
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Annex B.ii. Photograph: EUT Internal Photo

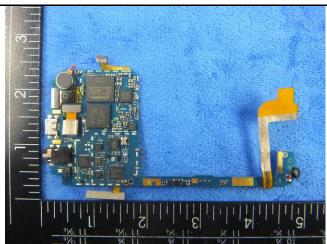




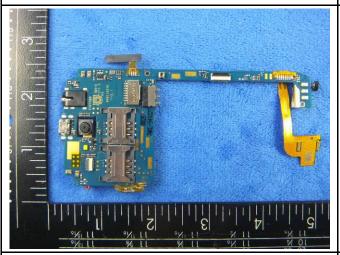
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Mainborad With Shielding - Front View



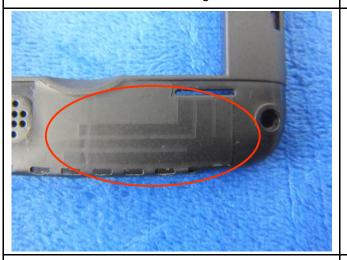
Mainborad Without Shielding - Front View



Mainborad With Shielding - Front View



BT/BLE/WIFI Antenna View

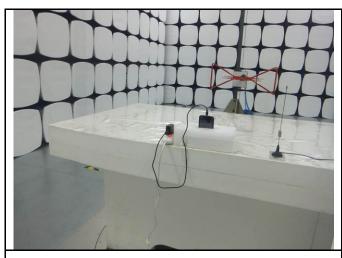


GSM/PCS/UMTS-FDD Antenna View

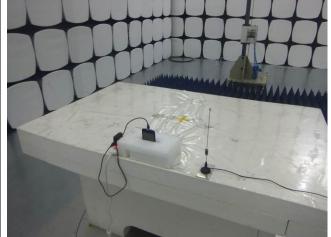


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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

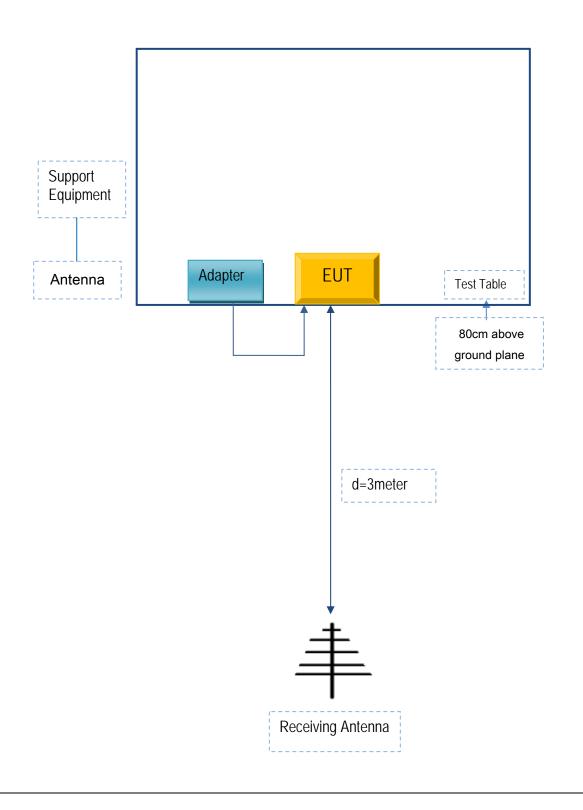


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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