# RF TEST REPORT



Report No.: 15070313-FCC-R1
Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile Phone			
Model No.	s5518	s5518		
Serial No.	N/A			
Took Stondard	FCC Part 22(H), FCC Part 24(E), FCC Part 27: 2014; ANSI/TIAC603			
Test Standard	D: 2013			
Test Date	April 30to May 19, 2015			
Issue Date	May 20, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did no	Equipment did not comply with the specification			
Winnie Zhang Chris You				
Winnie Zhang Test Engineer		Chris You 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**

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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
15070313-FCC-R1	NONE	Original	May 20, 2015

## 2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA
Manufacturer	Zechin Communications Co.,Ltd.
Manufacturer Add	Unit804,8th Floor Desay Tech Building Gaoxin, Road South,
	Nanshan District Shenzhen,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	Radiated Emission Program-To Shenzhen v2.0



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## 4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: s5518

Serial Model: N/A

Date EUT received: April 29 2015

Test Date(s): April 30to May 19, 2015

Equipment Category : PCE

Type of Modulation:

GSM850: 1.6dBi PCS1900: 3.8dBi

UMTS-FDD Band V:1.7 dBi
UMTS-FDD Band IV:3.7 dBi

Antenna Gain:

UMTS-FDD Band II: 1.75 dBi

Bluetooth/BLE: 3 dBi

WIFI: 2.9 dBi GPS: 1.6 dBi

GSM / GPRS: GMSK EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

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 IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 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: 33.8dBm

PCS1900: 30.43dBm

Maximum Conducted

UMTS-FDD Band V : 23.59 dBm AV Power to Antenna:

UMTS-FDD Band II : 21.88 dBm  $\,$ 

UMTS-FDD Band IV: 22.15 dBm

GSM850: 25.49 dBm / ERP

PCS1900: 23.98 dBm / EIRP

ERP/EIRP: UMTS-FDD Band V: 19.71 dBm / ERP

UMTS-FDD Band II: 19.85 dBm / EIRP UMTS-FDD Band IV: 19.54 dBm / EIRP

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band IV: 202CH

Number of Channels: UMTS-FDD Band II: 277CH

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: 345197P

Spec: 3.8V 2600mAh 9.88Wh

Limited charger voltage:4.35V

Input Power:

Adapter:

Model: S0500100-US

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

Output: DC 5.0V; 1A

Trade Name: verykool

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



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EOO ID	\A\A\00EE40	
FCC ID:	WA6S5518	
I OO ID.	VV/\000010	



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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 Dawer	Compliance	
§ 27.50(c.10); § 27.50(d.4)	RF Output Power		
§ 24.232 (d) ; § 27.50(d)	Peak-Average Ratio	Compliance	
§ 2.1047	Modulation Characteristics	Compliance	
§ 2.1049; § 22.905; § 22.917;	000/ 9, 2C dD Opporated Developed	0	
§ 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance	
§ 2.1051; § 22.917(a);	Courieus Emissions et Antonno Torreirol	Compliance	
§ 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal		
§ 2.1053; § 22.917(a);	Field Strongth of Spurious Dediction	Compliance	
§ 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance	
§ 22.917(a); § 24.238(a);	Out of hand emission Rand Edge	Compliance	
§ 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		

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: 15070313-FCC-H.



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## 6.2 RF Output Power

Temperature	24°C
Relative Humidity	54%
Atmospheric Pressure	1005mbar
Test date :	May 05, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Requirement(s):			
Spec	Item	Requirement	Applicable
§22.913 (a)	a)	ERP:38.45dBm	<b>V</b>
§24.232 (c)	b)	EIRP:33dBm	<b>&gt;</b>
§27.50 (c)	c)	EIRP: 30dBm	
Test Setup	EUT Base Station		
Test Procedure			and and it was aced on the f 3 meters er to identify at was



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	<ul> <li>generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.</li> <li>Spurious emissions in dB = 10 log (TX power in Watts/0.001) – the absolute level</li> <li>Spurious attenuation limit in dB = 43 + 10 Log10 (power out in Watts.</li> </ul>	
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 PCS1900							
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	33.72	33.75	33.8	33±1	29.87	30.07	30.43	30±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	33.69	33.74	33.76	33±1	29.81	30.04	30.42	30±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	33.00	33.17	33.21	30±1	29.47	29.7	29.93	29±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK (4 uplink),GMSK	30.61	30.77	30.85	30±1	26.64	26.51	26.48	26±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	33.68	33.73	33.74	33±1	29.8	30.03	30.41	30±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	33.11	33.16	33.2	33±1	29.46	29.69	29.92	29±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	30.57	30.64	30.73	30±1	26.21	26.32	26.27	26±1

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)	
	4132	826.4	23.36	
RMC	4175	835	23.59	
12.2kbps	4233	846.6	23.49	
HODDA	4132	826.4	23.32	
HSDPA	4175	835	23.56	
Subtest1	4233	846.6	23.47	
HODDA	4132	826.4	23.38	
HSDPA Subtest2	4175	835	23.58	
Sublesiz	4233	846.6	23.41	
HCDDA	4132	826.4	23.37	
HSDPA	4175	835	23.54	
Subtest3	4233	846.6	23.43	
HCDDA	4132	826.4	23.36	
HSDPA Subtest4	4175	835	23.52	
Sublesi4	4233	846.6	23.43	
LICLIDA	4132	826.4	23.34	
HSUPA Subtest1	4175	835	23.42	
Sublest I	4233	846.6	23.49	
HELIDA	4132	826.4	23.31	
HSUPA Subtest2	4175	835	23.51	
Sublesiz	4233	846.6	23.47	
LICLIDA	4132	826.4	23.38	
HSUPA Subtest3	4175	835	23.51	
Sublesis	4233	846.6	23.46	
HSUPA	4132	826.4	23.34	
Subtest4	4175	835	23.58	
Jubiesi4	4233	846.6	23.43	
ПСТВУ	4132	826.4	23.34	
HSUPA Subtest5	4175	835	23.56	
Oublesto	4233	846.6	23.42	



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## **UMTS-FDD Band II**

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
DMC	9262	1852.4	21.5
RMC	9400	1880	21.48
12.2kbps	9538	1907.6	21.88
HCDDA	9262	1852.4	21.46
HSDPA Subtest1	9400	1880	21.47
Sublest i	9538	1907.6	21.87
HCDDA	9262	1852.4	21.19
HSDPA Subtest2	9400	1880	21.44
Sublesiz	9538	1907.6	21.86
HCDDA	9262	1852.4	21.44
HSDPA Subtest3	9400	1880	21.47
Sublesis	9538	1907.6	21.82
LICDDA	9262	1852.4	21.44
HSDPA Subtest4	9400	1880	21.42
Sublest4	9538	1907.6	21.81
LICLIDA	9262	1852.4	21.43
HSUPA Subtest1	9400	1880	21.41
Sublest i	9538	1907.6	21.79
LICLIDA	9262	1852.4	21.46
HSUPA Subtest2	9400	1880	21.43
Sublesiz	9538	1907.6	21.87
LICLIDA	9262	1852.4	21.43
HSUPA	9400	1880	21.47
Subtest3	9538	1907.6	21.79
LICUDA	9262	1852.4	21.43
HSUPA Subtest4	9400	1880	21.46
Subtest4	9538	1907.6	21.78
LICUIDA	9262	1852.4	21.43
HSUPA Subtost5	9400	1880	21.47
Subtest5	9538	1907.6	21.77



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## **UMTS-FDD Band IV**

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
DMC	1313	1712.6	22.14
RMC	1413	1732.6	22.15
12.2kbps	1512	1752.4	22.02
LICDDA	1313	1712.6	22.14
HSDPA Subtest1	1413	1732.6	22.14
Sublest i	1512	1752.4	22.03
LICDDA	1313	1712.6	22.14
HSDPA	1413	1732.6	22.15
Subtest2	1512	1752.4	22.07
110004	1313	1712.6	22.14
HSDPA	1413	1732.6	22.15
Subtest3	1512	1752.4	22.05
LIODDA	1313	1712.6	22.14
HSDPA Subtest4	1413	1732.6	22.14
Sublesi4	1512	1752.4	22.04
LICLIDA	1313	1712.6	22.15
HSUPA Subtest1	1413	1732.6	22.13
Sublesti	1512	1752.4	22.04
LIGUIDA	1313	1712.6	22.09
HSUPA	1413	1732.6	22.13
Subtest2	1512	1752.4	22.07
LIGUIDA	1313	1712.6	22.13
HSUPA	1413	1732.6	22.14
Subtest3	1512	1752.4	22.05
LIGUIDA	1313	1712.6	22.14
HSUPA Subtest4	1413	1732.6	22.16
Sublest4	1512	1752.4	22.03
LICLIDA	1313	1712.6	22.13
HSUPA Subtost5	1413	1732.6	22.14
Subtest5	1512	1752.4	22.04



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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	19.16	V	6.8	0.53	25.43	38.45
824.2	17.45	Н	6.8	0.53	23.72	38.45
836.6	19.22	V	6.8	0.53	25.49	38.45
836.6	17.33	Н	6.8	0.53	23.60	38.45
848.8	18.96	V	6.9	0.53	25.33	38.45
848.8	17.42	Н	6.9	0.53	23.79	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	16.95	V	7.88	0.85	23.98	33
1850.2	14.82	Н	7.88	0.85	21.85	33
1880	16.77	V	7.88	0.85	23.80	33
1880	14.53	Н	7.88	0.85	21.56	33
1909.8	16.92	V	7.86	0.85	23.93	33
1909.8	14.39	Н	7.86	0.85	21.40	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	13.44	V	6.8	0.53	19.71	38.45
826.4	12.26	Н	6.8	0.53	18.53	38.45
835	12.97	V	6.8	0.53	19.24	38.45
835	12.55	Н	6.8	0.53	18.82	38.45
846.6	13.13	V	6.9	0.53	19.50	38.45
846.6	12.69	Н	6.9	0.53	19.06	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	12.82	V	7.88	0.85	19.85	33
1852.4	11.35	Н	7.88	0.85	18.38	33
1880	12.59	V	7.88	0.85	19.62	33
1880	11.48	Н	7.88	0.85	18.51	33
1907.6	12.67	V	7.86	0.85	19.68	33
1907.6	11.51	Н	7.86	0.85	18.52	33

### EIRP for UMTS-FDD Band IV (Part 27E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	12.39	V	7.76	0.82	19.33	30
1712.4	11.92	Н	7.76	0.82	18.86	30
1740	12.55	V	7.76	0.82	19.49	30
1740	12.02	Н	7.76	0.82	18.96	30
1752.6	12.62	V	7.74	0.82	19.54	30
1752.6	11.68	Н	7.74	0.82	18.60	30

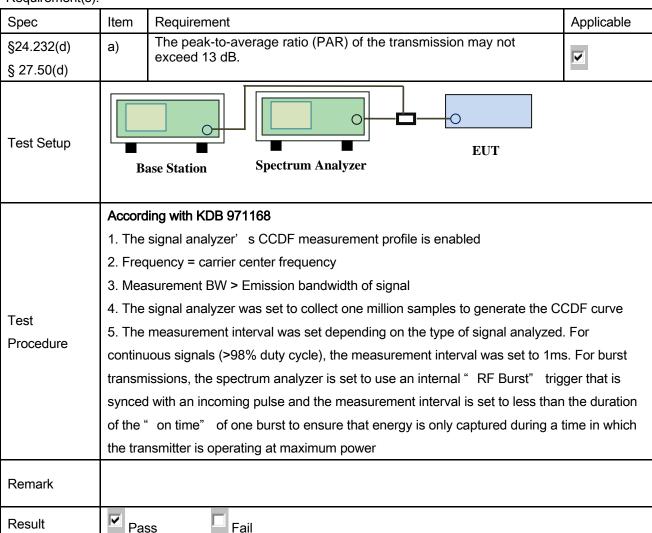


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### 6.3 Peak-Average Ratio

Temperature	21°C
Relative Humidity	58%
Atmospheric Pressure	1010mbar
Test date :	April 09, 2015
Tested By :	Winnie Zhang

#### Requirement(s):



Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	✓ <sub>N/A</sub>



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### GSM 1900 PK-AV POWER(PART 22H)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	30.42	29.87	0.55
1880	30.29	30.07	0.22
1909.8	30.76	30.43	0.33

### UMTS-FDD Band II PK-AV POWER(PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	24.29	21.5	2.79
1880	24.45	21.48	2.97
1907.6	24.78	21.88	2.90

### UMTS-FDD Band IV PK-AV POWER (PART 27)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.6	25.41	22.14	3.27
1732.6	25.46	22.15	3.31
1752.4	25.11	22.02	3.09



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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	23°C
Relative Humidity	53%
Atmospheric Pressure	1004mbar
Test date :	May 04, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049, §22.917,	a)	99% Occupied Bandwidth(kHz)	<b>V</b>
§22.905 §24.238 §27.53(a)	b)	26 dB Bandwidth(kHz)	<b>&gt;</b>
Test Setup	Base Station Spectrum Analyzer EUT		
Test Procedure	<ul> <li>The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.</li> </ul>		
Remark			
Result	Pa	ss Fail	

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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## Cellular Band (Part 22H) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
Channel	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	243.9392	314.431
190	836.6	247.5429	319.263
251	848.8	242.4378	315.110

### PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	248.4894	316.895
661	1880.0	251.2242	315.034
810	1909.8	245.3272	317.952

### UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1373	4.679
4175	835.0	4.1643	4.703
4233	846.6	4.1792	4.685

### UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1712.6	4.1825	4.713
9400	1733.0	4.1622	4.697
9538	1752.4	4.1664	4.705

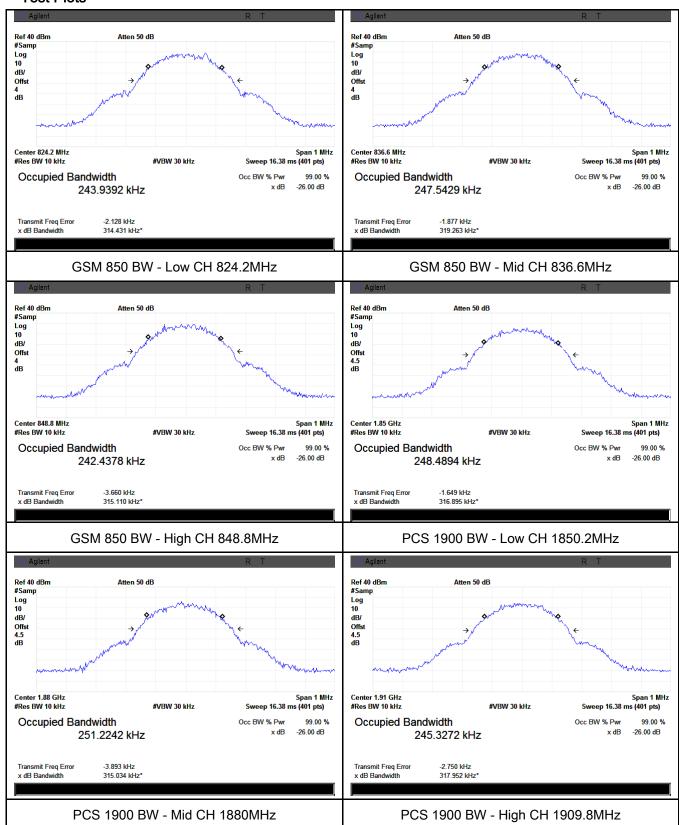
### UMTS-FDD Band II (Part 24E)

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (MHz)	(MHz)
9262	1852.4	4.1736	4.702
9400	1880.0	4.1725	4.726
9538	1907.6	4.1419	4.716



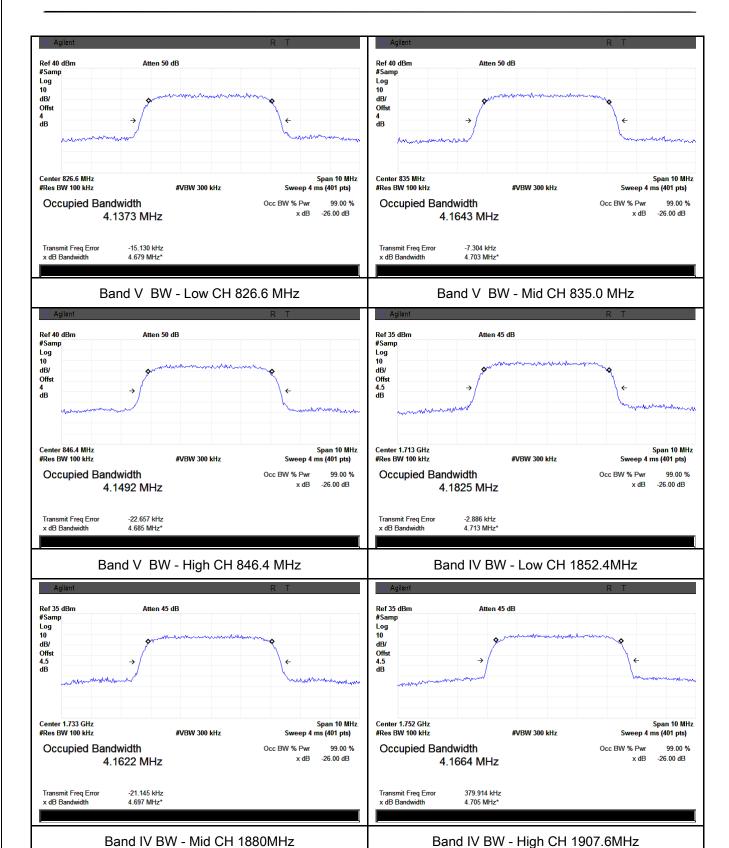
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#### **Test Plots**



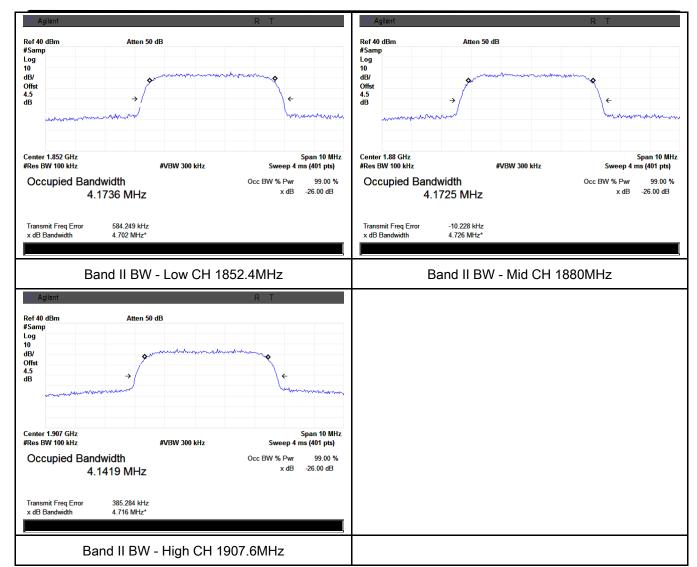


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## 6.6 Spurious Emissions at Antenna Terminals

Temperature	23°C
Relative Humidity	53%
Atmospheric Pressure	1004mbar
Test date :	May 04, 2015
Tested By :	Winnie Zhang

### Requirement(s):

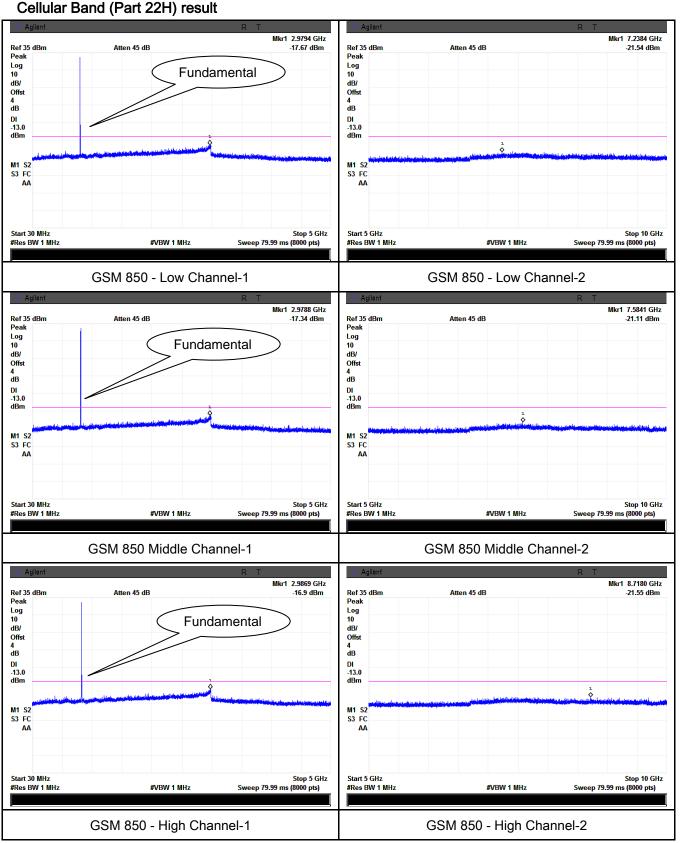
Spec	Item	Requirement	Applicable
§2.1051,		The power of any emission outside of the authorized	
§22.917(a)&	2)	operating frequency ranges must be lower than the	✓
§24.238(a)	(a)	transmitter power (P) by a factor of at least 43 + 10 log	
§ 27.53(h)		(P) dB	
Test Setup		Base Station Spectrum Analyzer	
	-	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 powers were measured.  Setting RBW as roughly BW/100.	st RF
Remark			
Result	<b>▼</b> Pa	ss Fail	

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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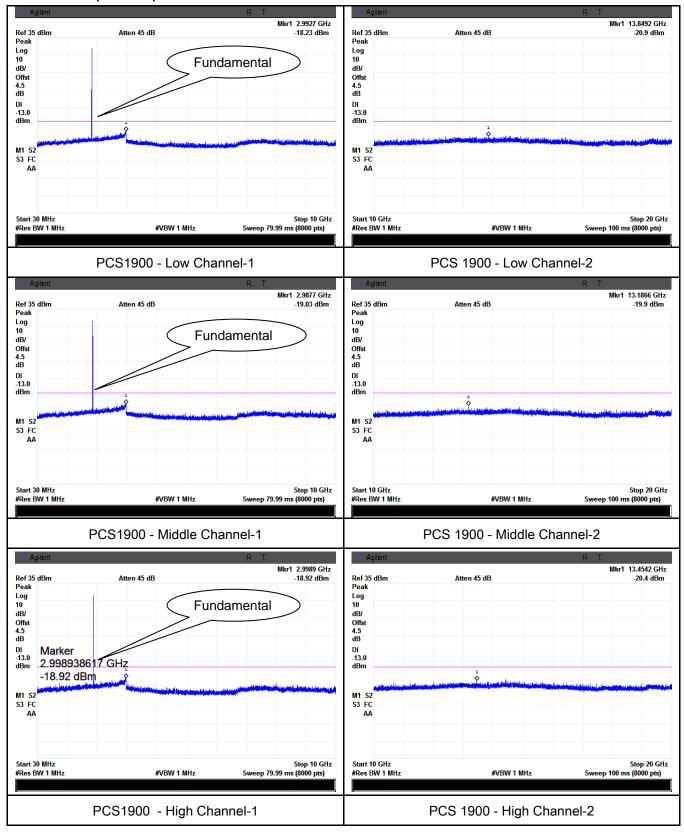
## Test Plots





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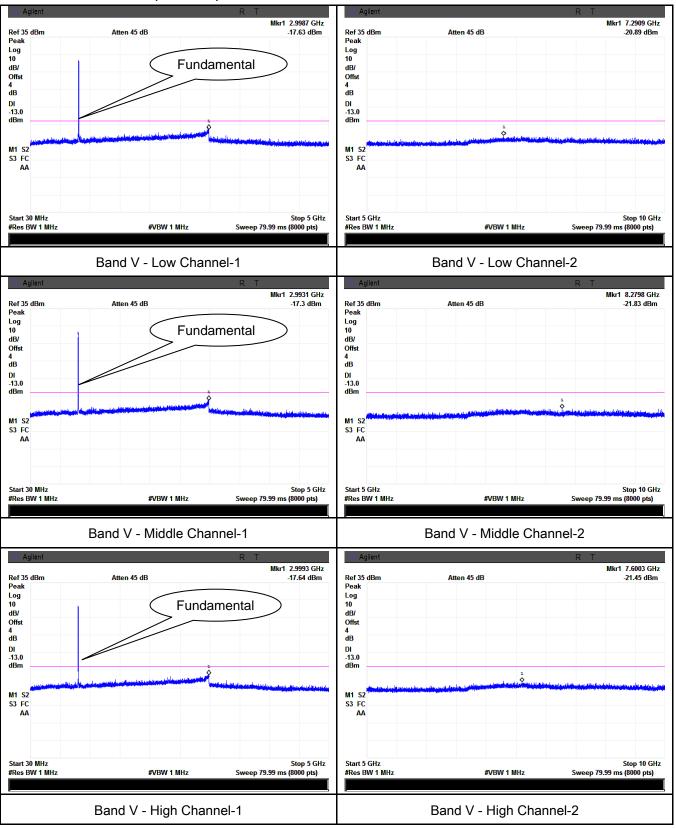
#### PCS Band (Part24E) result





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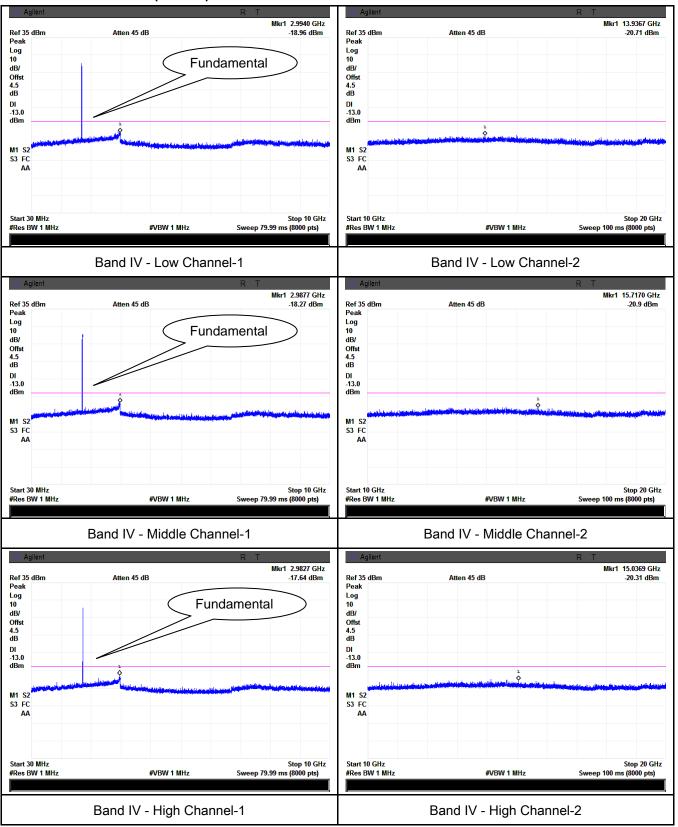
#### UMTS-FDD Band V (Part 22H)





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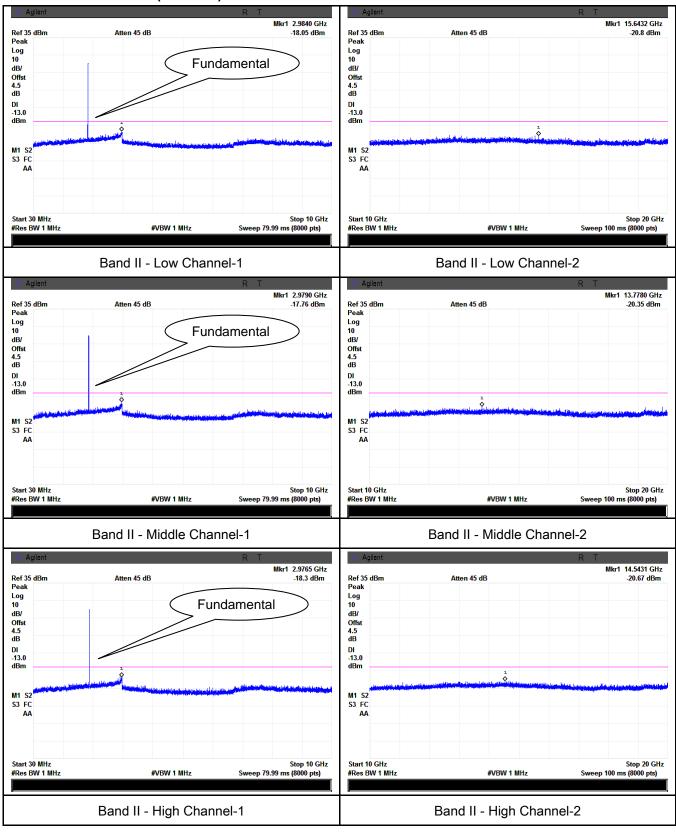
#### UMTS-FDD Band IV (Part 27)





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#### UMTS-FDD Band II (Part 24E)





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## 6.7 Spurious Radiated Emissions

Temperature	21°C
Relative Humidity	53%
Atmospheric Pressure	1007mbar
Test date :	May 07, 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.	₹
Test setup		Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver	
Test Procedure	<ol> <li>The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.</li> <li>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.</li> <li>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)     </li> </ol>		
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	-45.89	V	7.95	0.78	-38.72	-13	-25.72
1648.4	-45.77	Н	7.95	0.78	-38.6	-13	-25.6
422.9	-56.84	٧	6.5	0.30	-50.64	-13	-37.64
805.2	-51.38	Н	6.9	0.44	-44.92	-13	-31.92

#### 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	-43.68	V	7.95	0.78	-36.51	-13	-23.51
1673.2	-44.82	Η	7.95	0.78	-37.65	-13	-24.65
423.1	-57.16	V	6.50	0.30	-50.96	-13	-37.96
804.5	-52.31	Н	6.90	0.44	-45.85	-13	-32.85

### 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	-44.91	V	7.95	0.78	-37.74	-13	-24.74
1697.6	-45.76	Н	7.95	0.78	-38.59	-13	-25.59
421.5	-56.96	V	6.50	0.30	-50.76	-13	-37.76
806.1	-51.75	Н	6.90	0.44	-45.29	-13	-32.29



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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	-46.87	V	10.25	2.73	-39.35	-13	-26.35
3700.4	-47.82	Н	10.25	2.73	-40.30	-13	-27.30
424.3	-56.99	V	6.50	0.30	-50.79	-13	-37.79
806.5	-51.46	Н	6.90	0.44	-45.00	-13	-32.00

### 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	-47.13	V	10.25	2.73	-39.61	-13	-26.61
3760	-46.82	Н	10.25	2.73	-39.30	-13	-26.3
421.5	-57.05	V	6.50	0.30	-50.85	-13	-37.85
804.7	-50.84	Н	6.90	0.44	-44.38	-13	-31.38

### 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	-46.93	V	10.36	2.73	-39.30	-13	-26.3
3819.6	-47.24	Н	10.36	2.73	-39.61	-13	-26.61
423.6	-56.84	٧	6.50	0.30	-50.64	-13	-37.64
804.8	-50.68	Н	6.90	0.44	-44.22	-13	-31.22



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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	-48.92	٧	7.95	0.78	-41.75	-13	-28.75
1652.8	-47.38	Н	7.95	0.78	-40.21	-13	-27.21
423.3	-57.44	V	6.50	0.30	-51.24	-13	-38.24
806.4	-50.62	Н	6.90	0.44	-44.16	-13	-31.16

#### 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	-49.01	V	7.95	0.78	-41.84	-13	-28.84
1670	-47.44	Н	7.95	0.78	-40.27	-13	-27.27
421.7	-56.92	V	6.5	0.30	-50.72	-13	-37.72
804.9	-51.34	Н	6.9	0.44	-44.88	-13	-31.88

### High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-48.59	V	7.95	0.78	-41.42	-13	-28.42
1693.2	-47.84	Н	7.95	0.78	-40.67	-13	-27.67
423.5	-57.42	V	6.50	0.30	-51.22	-13	-38.22
806.1	-50.66	Н	6.90	0.44	-44.2	-13	-31.20



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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	-48.39	٧	10.25	2.73	-40.87	-13	-27.87
3704.8	-47.56	Н	10.25	2.73	-40.04	-13	-27.04
423.4	-57.61	V	6.50	0.30	-51.41	-13	-38.41
804.4	-51.22	Н	6.90	0.44	-44.76	-13	-31.76

### 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	-48.56	V	10.25	2.73	-41.04	-13	-28.04
3760	-46.68	Н	10.25	2.73	-39.16	-13	-26.16
425.1	-58.11	V	6.50	0.30	-51.91	-13	-38.91
806.2	-50.57	Н	6.90	0.44	-44.11	-13	-31.11

### 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	-46.64	V	10.36	2.73	-39.01	-13	-26.01
3815.2	-48.77	Н	10.36	2.73	-41.14	-13	-28.14
424.9	-56.84	V	6.50	0.30	-50.64	-13	-37.64
804.6	-51.26	Н	6.90	0.44	-44.80	-13	-31.8



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### UMTS-FDD Band IV (Part 27E)

#### 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	-46.26	V	10.07	2.52	-38.71	-13	-25.71
3424.8	-47.92	Н	10.07	2.52	-40.37	-13	-27.37
266.3	-56.82	٧	5.5	0.24	-51.56	-13	-38.56
654.2	-51.44	Н	6.8	0.39	-45.03	-13	-32.03

#### 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	-44.29	V	10.09	2.52	-36.72	-13	-23.72
3480	-48.63	Н	10.09	2.52	-41.06	-13	-28.06
267.1	-57.13	V	5.5	0.24	-51.87	-13	-38.87
653.7	-50.49	Н	6.8	0.39	-44.08	-13	-31.08

### 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	-45.98	V	10.09	2.52	-38.41	-13	-25.41
3505.2	-47.47	Н	10.09	2.52	-39.9	-13	-26.9
266.8	-57.34	V	5.5	0.24	-52.08	-13	-39.08
654.5	-51.66	Н	6.8	0.39	-45.25	-13	-32.25



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# 6.8 Band Edge

Temperature	23°C
Relative Humidity	53%
Atmospheric Pressure	1004mbar
Test date :	May 04, 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.	▼
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	<b>☑</b> Pa	ss Fail	

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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### Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9650	-13.51	-13
849.0200	-13.20	-13

### PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1849.9950	-15.61	-13	
1910.0175	-14.18	-13	

### UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
823.9000	-22.83	-13	
849.0500	-25.07	-13	

### UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1709.9250	-27.21	-13	
1755.0500	-28.38	-13	

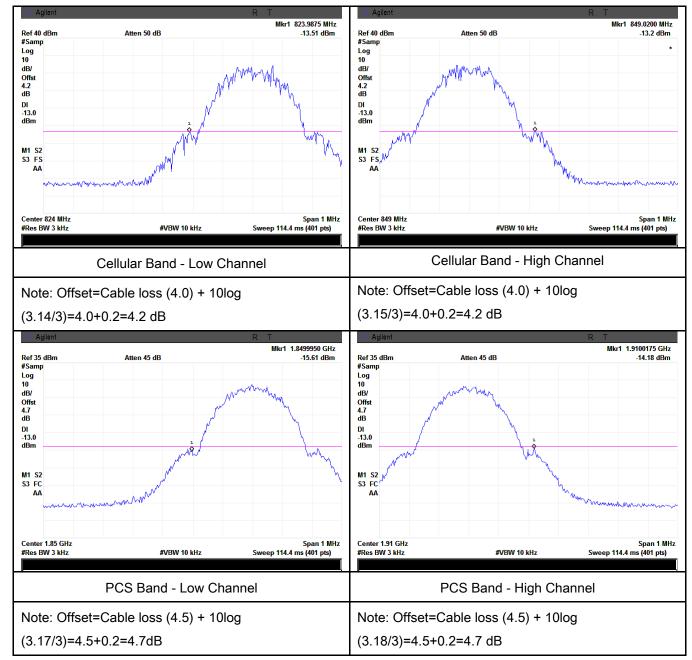
### UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1849.9000	-27.67	-13	
1910.2250	-25.928	-13	



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#### **Test Plots**





UMTS-FDD Band IV- Low Channel

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

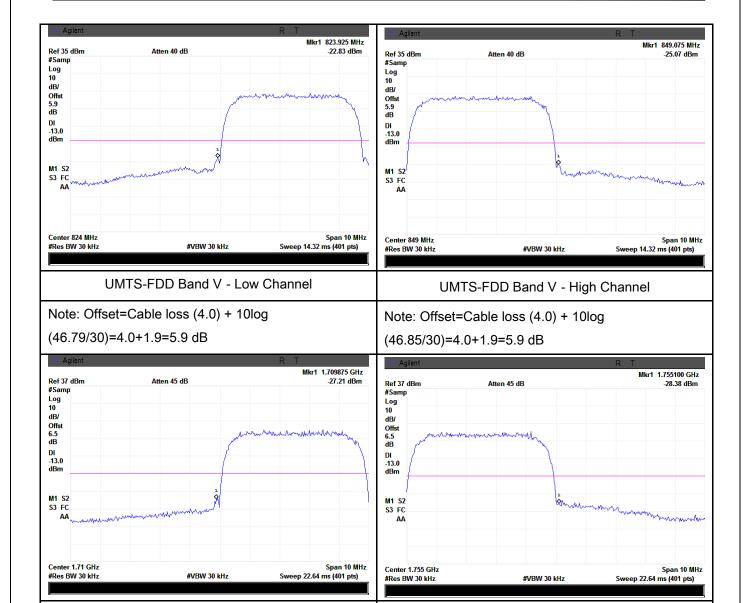
(47.13/30)=4.5+2.0=6.5 dB

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UMTS-FDD Band IV-- High Channel

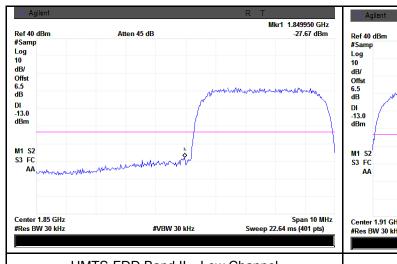
Note: Offset=Cable loss (4.5) + 10log

(47.05/30)=4.5+2.0=6.5 dB





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UMTS-FDD Band II - High Channel

UMTS-FDD Band II - Low Channel

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

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

(47.16/30)=4.5+2.0=6.5 dB

(47.02/30)=4.5+2.0=6.5 dB



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# 6.9 Frequency Stability

Temperature	24°C
Relative Humidity	54%
Atmospheric Pressure	1005mbar
Test date :	May 05, 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	to be maintained wow.  mitters in the Public Mobile ≤ 3 watts (ppm) 20.0 5.0 5.0 2.5 N/A N/A N/A	ithin the lic Mobile  Mobile ≤ 3 watts (ppm) 50.0 50.0 50.0 2.5 N/A N/A N/A	
		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	□ <sub>N/A</sub>
Test Plot	Yes (See below)	✓ <sub>N/A</sub>



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## Cellular Band (Part 22H) result

	Middle Channel, f <sub>o</sub> = 836.6 MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		22	0.0263	2.5	
0	3.7	17	0.0203	2.5	
10		15	0.0179	2.5	
20		6	0.0072	2.5	
30		12	0.0143	2.5	
40		19	0.0227	2.5	
50		24	0.0287	2.5	
55		30	0.0359	2.5	
25	4.2	20	0.0239	2.5	
	3.5	23	0.0275	2.5	

### PCS Band (Part 24E) result

	1 (1 art 2+L) 163uit				
	Middle Channel, f <sub>o</sub> = 1880 MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		37	0.0197	2.5	
0		36	0.0191	2.5	
10	3.7	34	0.0181	2.5	
20		29	0.0154	2.5	
30		31	0.0165	2.5	
40		33	0.0176	2.5	
50		34	0.0181	2.5	
55		36	0.0191	2.5	
25	4.2	32	0.0170	2.5	
25	3.5	37	0.0197	2.5	



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### UMTS-FDD Band V (Part 22H)

	Middle Channel, f <sub>o</sub> = 835 MHz			
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		18	0.0216	2.5
0	3.7	16	0.0192	2.5
10		12	0.0144	2.5
20		9	0.0108	2.5
30		13	0.0156	2.5
40		16	0.0192	2.5
50		20	0.0240	2.5
55		21	0.0251	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 <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		15	0.0080	2.5	
0	3.7	13	0.0069	2.5	
10		6	0.0032	2.5	
20		5	0.0027	2.5	
30		8	0.0043	2.5	
40		11	0.0059	2.5	
50		14	0.0074	2.5	
55		19	0.0101	2.5	
O.F.	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, f₀ = 1880 MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		13	0.0069	2.5	
0	3.7	9	0.0048	2.5	
10		5	0.0027	2.5	
20		6	0.0032	2.5	
30		8	0.0043	2.5	
40		11	0.0059	2.5	
50		13	0.0069	2.5	
55		14	0.0074	2.5	
25	4.2	12	0.0064	2.5	
25	3.5	15	0.0080	2.5	



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# Annex A. TEST INSTRUMENT

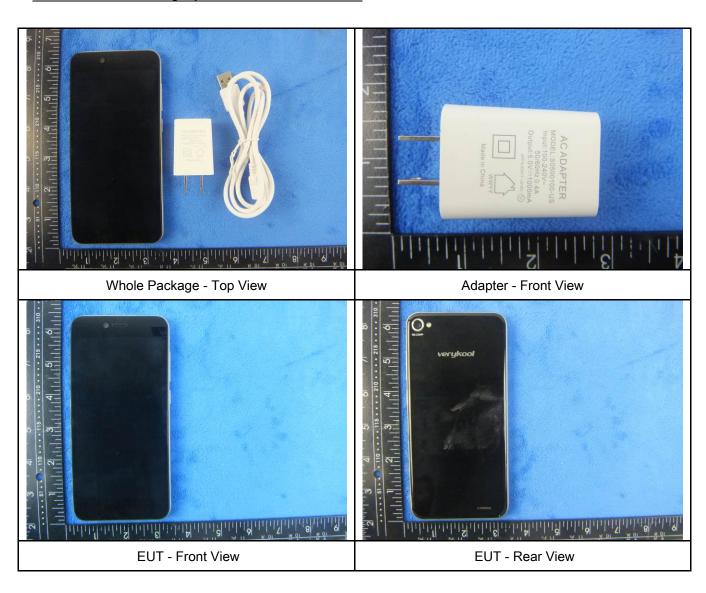
Instrument	Model	Serial#	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/17/2014	09/16/2015	<b>\</b>
Power Splitter	1#	1#	09/02/2014	09/01/2015	~
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	<b>&gt;</b>
Temperature/Humidity Chamber	UHL-270	001	10/10/2014	10/09/2015	<u>&lt;</u>
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	<b>(</b>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	10/04/2015	10/04/2016	<b>Y</b>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	<u>&lt;</u>
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	<b>Y</b>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<b>V</b>
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/18/2014	09/17/2015	<u>&lt;</u>
Tunable Notch Filter	3NF- 800/1000-S	AA4	09/02/2014	09/01/2015	<b>\</b>
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	09/02/2014	09/01/2015	<b>Y</b>



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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





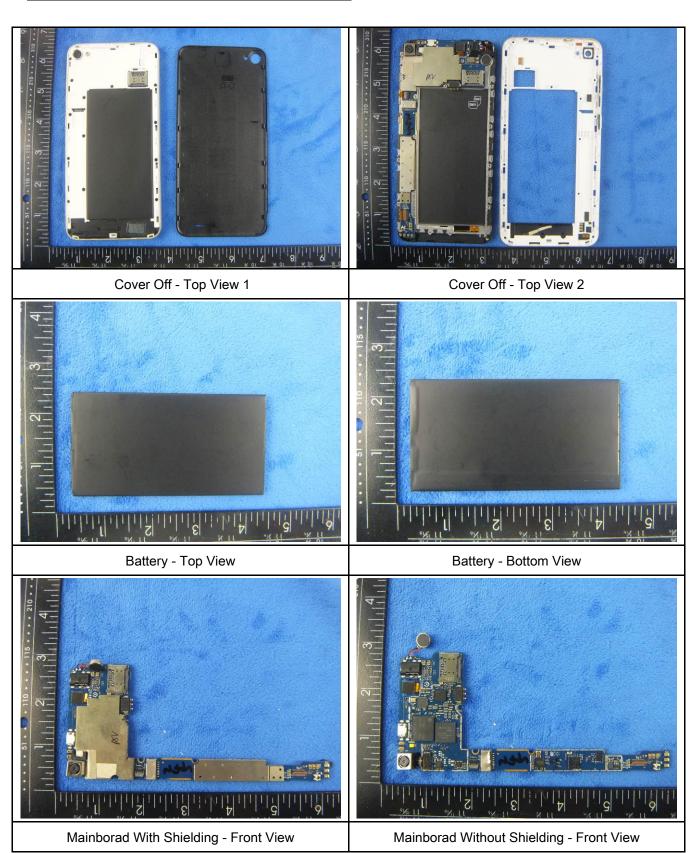


EUT - Right View



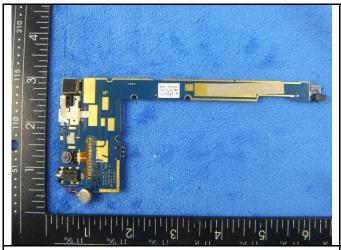
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### Annex B.ii. Photograph: EUT Internal Photo





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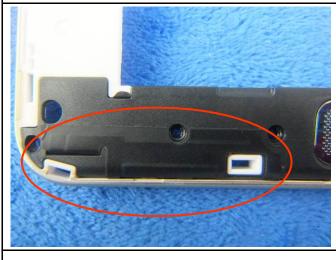
Mainborad - Rear View

LCD - Front View





LCD - Rear View



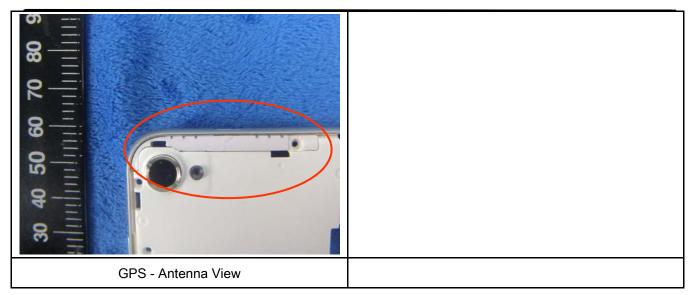


GSM/PCS/UMTS-FDD Antenna View

WIFI/BT/BLE - Antenna View



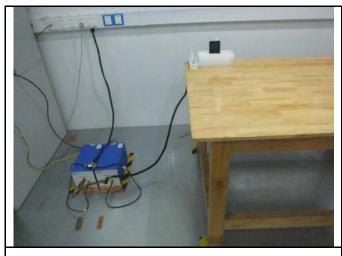
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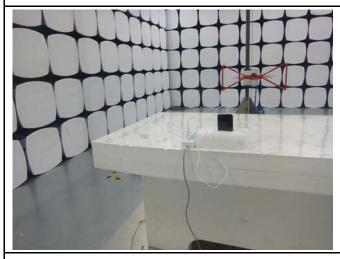
### Annex B.iii. Photograph: Test Setup Photo



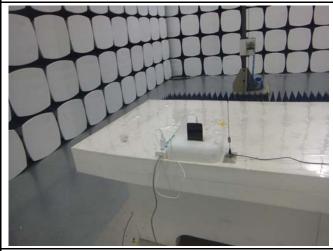
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

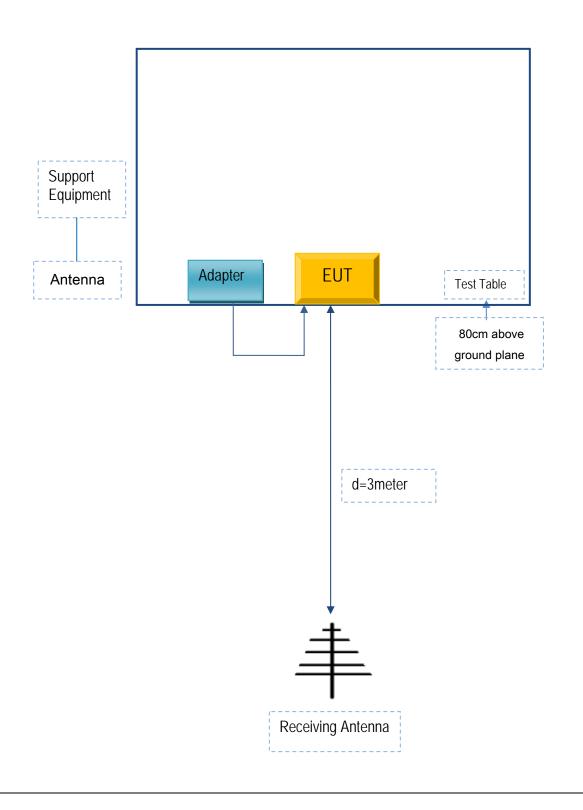


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## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### 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