RF TEST REPORT



Report No.: 16070293-FCC-R1 Supersede Report No.: N/A

Applicant	Verykool USA Inc		
Product Name	Mobile phone		
Model No.	s5525		
Serial No.	N/A		
Took Oton doud	FCC Part 22(H):2015 ;FCC Part 24(E):2015; FCC Part 27:2015;		
Test Standard	ANSI/TIA-603-D: 2010		
Test Date	April 16 to April 27, 2016		
Issue Date	May 12, 2016		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
Winnie.Z.	heng David Huang		
Winnie Zh Test Engir			

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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
16070293-FCC-R1	NONE	Original	April 28, 2016
16070293-FCC-R1	V1	Adding note	May 12, 2016

2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, California 92122 United States
Manufacturer	Kozen Mobile Co.,Ltd
Manufacturer Add	Floor 3rd, Building 29, No.368 Zhangjiang Road, Pudong District, Shanghai, China
	201203

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: s5525

Serial Model: N/A

Date EUT received: April 15, 2016

Test Date(s): April 16 to April 27, 2016

Equipment Category : PCE

GSM850: -1dBi PCS1900: 2.5dBi

UMTS-FDD Band V: -1dBi

UMTS-FDD Band IV: 2dBi
Antenna Gain:

UMTS-FDD Band II: 2.5dBi

Bluetooth/BLE: 3.5dBi

WIFI: 3.5dBi GPS: 1.5dBi

GSM / GPRS: GMSK

UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM

Type of Modulation:

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

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 IV TX:1712.4 \sim 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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GPS RX:1575.42 MHz

GSM850: 32.12 dBm

PCS1900: 28.83 dBm

Maximum Conducted

Number of Channels:

UMTS-FDD Band V: 22.85 dBm AV Power to Antenna:

> UMTS-FDD Band II: 21.58 dBm UMTS-FDD Band IV: 20.68 dBm

GSM850: 29.43 dBm / ERP

PCS1900: 32.34 dBm / EIRP

ERP/EIRP: UMTS-FDD Band V: 19.94 dBm / ERP

> UMTS-FDD Band II: 24.22 dBm / EIRP UMTS-FDD Band IV: 22.56 dBm/ EIRP

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band IV: 202CH

UMTS-FDD Band II: 277CH

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

WIFI:802.11n(40M):7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Power Port, Earphone Port, USB Port

Adapter:

Model: A98A-050100U-US1

Input: AC 100-240V; 50/60Hz;0.2A

Output: DC 5.0V,1.0A

Input Power: Battery:

Model: s5525

Spec:3.8V,2800mAh,10.64Wh Limited charger voltage :4.35V

Trade Name: verykool



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

FCC ID: WA6S5525



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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	Compliance	
§ 24.232 (d) ; § 27.50(d)	Peak-Average Ratio	Compliance	
§ 2.1049; § 22.905; § 22.917;	000/ 9, 2C dD Opporated Developed	Compliance	
§ 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth		
§ 2.1051; § 22.917(a);	Courieus Emissions et Antonno Torreirol	Camplianas	
§ 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance	
§ 2.1053; § 22.917(a);	Field Chronath of Courieus Dadistics	Compliance	
§ 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance	
§ 22.917(a); § 24.238(a);	Out of hand aminaing Board Edge	Camadiana	
§ 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	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: 16070293-FCC-H.



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6.2 RF Output Power

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
Tested By :	Winnie Zhang

Requirement(s):

Requirement(s):	Ι		<u> </u>					
Spec	Item	Requirement Applica						
§22.913 (a)	a)	RP:38.45dBm						
§24.232 (c)	b)	RP:33dBm						
§27.50 (c)	c)	EIRP: 30dBm						
Test Setup								
Test Procedure	- - - F	The transmitter output port was connected to base state Set EUT at maximum power through base station. Select lowest, middle, and highest channels for each to different test mode. For ERP/EIRP: According with KDB 971168 v02r02 The transmitter was placed on a wooden turntable, and transmitting into a non-radiating load which was also placed turntable. The measurement antenna was placed at a distance of from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in ord the maximum level of emissions from the EUT. The test performed by placing the EUT on 3-orthogonal axis. The frequency range up to tenth harmonic of the fundation.	d it was laced on the f 3 meters ler to identify st was					



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	frequency was investigated.					
	- Remove the EUT and replace it with substitution antenna. A signal					
	generator was connected to the substitution antenna by a non-					
	radiating cable. The absolute levels of the spurious emissions					
	were measured by the substitution.					
	- Spurious emissions in dB = 10 log (TX power in Watts/0.001) –					
	the absolute level					
	- Spurious attenuation limit in dB = 43 + 10 Log10 (power out in					
	Watts.					
Remark						
rtomant						
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	1	1850.2	1880	1909.8	1
GSM Voice (1 uplink),GMSK	31.95	32.08	32.12	32±1	28.83	28.77	28.31	28.5±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.91	32.07	32.11	32±1	28.79	28.78	28.36	28.5±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	31.34	31.47	31.58	31±1	28.25	28.19	27.73	28±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	28.38	28.62	28.92	28.5±1	25.64	25.54	25.03	25±1

Remark:

GPRS, CS1 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



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UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot		_	Average power	Tune up
configuration	Channel	Frequency	(dBm)	Power tolerant
DMG	4132	826.4	22.85	22±1
RMC	4175	835	22.25	22±1
12.2kbps	4233	846.6	22.64	22±1
LICDDA	4132	826.4	21.36	22±1
HSDPA Subtest1	4175	835	21.58	22±1
Sublest I	4233	846.6	21.45	22±1
HODDA	4132	826.4	21.15	22±1
HSDPA Subtest2	4175	835	21.16	22±1
Sublesiz	4233	846.6	21.37	22±1
HCDDA	4132	826.4	21.15	22±1
HSDPA Subtest3	4175	835	21.14	22±1
Sublesis	4233	846.6	21.25	22±1
HCDDA	4132	826.4	21.35	22±1
HSDPA Subtest4	4175	835	21.31	22±1
Sublest4	4233	846.6	21.26	22±1
LICLIDA	4132	826.4	21.86	22±1
HSUPA Subtest1	4175	835	21.53	22±1
Sublest I	4233	846.6	21.42	22±1
LICLIDA	4132	826.4	21.27	22±1
HSUPA Subtest2	4175	835	21.55	22±1
Sublesiz	4233	846.6	21.43	22±1
LICLIDA	4132	826.4	21.44	22±1
HSUPA Subtest3	4175	835	21.88	22±1
Sublesis	4233	846.6	21.56	22±1
HCLIDA	4132	826.4	21.54	22±1
HSUPA	4175	835	21.88	22±1
Subtest4	4233	846.6	21.34	22±1
LICUIDA	4132	826.4	21.36	22±1
HSUPA Subtost5	4175	835	21.45	22±1
Subtest5	4233	846.6	21.44	22±1



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UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
DMC	9262	1852.4	21.48	21.3±1
RMC	9400	1880	21.54	21.3±1
12.2kbps	9538	1907.6	21.58	21.3±1
HCDDA	9262	1852.4	20.86	21.3±1
HSDPA Subtest1	9400	1880	20.57	21.3±1
Sublest I	9538	1907.6	.6 20.66	21.3±1
HCDDA	9262	1852.4	20.75	21.3±1
HSDPA Subtest2	9400	1880	20.89	21.3±1
Sublesiz	9538	1907.6	20.78	21.3±1
11000	9262	1852.4	20.66	21.3±1
HSDPA	9400	1880	20.76	21.3±1
Subtest3	9538	1907.6	20.93	21.3±1
HODDA	9262	1852.4	20.48	21.3±1
HSDPA Subtest4	9400	1880	20.97	21.3±1
Sublesi4	9538	1907.6	20.48	21.3±1
HOUDA	9262	1852.4	20.68	21.3±1
HSUPA Subtest1	9400	1880	20.45	21.3±1
Sublest i	9538	1907.6	20.83	21.3±1
HOUDA	9262	1852.4	20.39	21.3±1
HSUPA Subtest2	9400	1880	20.75	21.3±1
Sublesiz	9538	1907.6	20.64	21.3±1
LICLIDA	9262	1852.4	20.86	21.3±1
HSUPA	9400	1880	20.77	21.3±1
Subtest3	9538	1907.6	20.61	21.3±1
HOUBA	9262	1852.4	20.94	21.3±1
HSUPA Subtest4	9400	1880	20.73	21.3±1
Sublesi4	9538	1907.6	20.59	21.3±1
LICUIDA	9262	1852.4	20.86	21.3±1
HSUPA Subtest5	9400	1880	20.79	21.3±1
Gunteata	9538	1907.6	20.68	21.3±1



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UMTS-FDD Band IV

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC	1313	1712.6	20.35	21.3±1
	1413	1732.6	20.48	21.3±1
12.2kbps	1512	1752.4	20.68	21.3±1
HCDDA	1313	1712.6	20.36	21.3±1
HSDPA	1413	1732.6	20.53	21.3±1
Sublesti	1512 1752.4 20.46	21.3±1		
LIODDA	1313	1712.6	20.55	21.3±1
HSDPA	1413	1732.6	20.59	21.3±1
Subtest2	1512	1752.4	20.58	21.3±1
110554	1313	1712.6	20.56	21.3±1
HSDPA Subtest3	1413	1732.6	20.46	21.3±1
	1512	1752.4	20.43	21.3±1
110554	1313	1712.6	20.38	21.3±1
HSDPA	1413	1732.6	20.57	21.3±1
Subtest4	1512	1752.4	20.44	21.3±1
LIGUIDA	1313	1712.6	20.38	21.3±1
HSUPA	1413	1732.6	20.48	21.3±1
Subtest1	1512	1752.4	20.33	21.3±1
LIGUEA	1313	1712.6	20.34	21.3±1
HSUPA	1413	1732.6	20.55	21.3±1
Subtest2	1512	1752.4	20.64	21.3±1
LIGUIDA	1313	1712.6	20.46	21.3±1
HSUPA	1413	1732.6	20.47	21.3±1
Subtest3	1512	1752.4	20.41	21.3±1
HOUDA	1313	1712.6	20.44	21.3±1
HSUPA	1413	1732.6	20.33	21.3±1
Subtest4	1512	1752.4	20.53	21.3±1
HOUDA	1313	1712.6	20.46	21.3±1
HSUPA Subtest5	1413	1732.6	20.39	21.3±1
วนมโซรเอ	1512	1752.4	20.58	21.3±1



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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	22.49	V	6.8	0.53	28.76	38.45
824.2	23.16	Н	6.8	0.53	29.43	38.45
836.6	22.65	V	6.8	0.53	28.92	38.45
836.6	22.94	Н	6.8	0.53	29.21	38.45
848.8	22.21	V	6.9	0.53	28.58	38.45
848.8	23.03	Н	6.9	0.53	29.40	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	24.15	V	7.88	0.85	31.18	33
1850.2	25.21	Н	7.88	0.85	32.24	33
1880	24.17	V	7.88	0.85	31.20	33
1880	25.31	Н	7.88	0.85	32.34	33
1909.8	23.82	V	7.86	0.85	30.83	33
1909.8	24.12	Н	7.86	0.85	31.13	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	13.52	V	6.8	0.53	19.79	38.45
826.4	13.67	Н	6.8	0.53	19.94	38.45
835	12.85	V	6.8	0.53	19.12	38.45
835	12.93	Н	6.8	0.53	19.20	38.45
846.6	13.04	V	6.9	0.53	19.41	38.45
846.6	13.21	Н	6.9	0.53	19.58	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	16.88	V	7.88	0.85	23.91	33
1852.4	17.02	Н	7.88	0.85	24.05	33
1880	17.01	V	7.88	0.85	24.04	33
1880	17.12	Н	7.88	0.85	24.15	33
1907.6	17.07	V	7.86	0.85	24.08	33
1907.6	17.21	Н	7.86	0.85	24.22	33

EIRP for UMTS-FDD Band IV (Part 27H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	15.31	V	7.76	0.82	22.25	30
1712.4	14.15	Н	7.76	0.82	21.09	30
1740	15.23	V	7.76	0.82	22.17	30
1740	13.95	Н	7.76	0.82	20.89	30
1752.6	15.64	V	7.74	0.82	22.56	30
1752.6	13.87	Н	7.74	0.82	20.79	30



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6.3 Peak-Average Ratio

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
Tested By :	Winnie Zhang

Requirement(s):

Requirement(s):					
Spec	Item	Requirement	Applicable		
§24.232(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	<u>~</u>		
§ 27.50(d)		exceed 13 db.			
Test Setup	•				
Test Procedure	According with KDB 971168 v02r02 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 duratio 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		d. For ns. For burst gger that is in the duration		
Remark					
Result	Pas	ss Fail			

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



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GSM 1900 PK-AV POWER(PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	30.25	28.83	1.42
1880	30.44	28.77	1.67
1909.8	30.77	28.31	2.46

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

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	24.86	21.48	3.38
1880	24.83	21.45	3.38
1907.6	25.03	21.58	3.45

UMTS-FDD BandIV PK-AV POWER (PART 27)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.6	23.81	20.35	3.46
1732.6	23.71	20.48	3.23
1752.4	24.01	20.68	3.33



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6.4 Occupied Bandwidth

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	April 18, 2016
Tested By:	Winnie Zhang

Requirement(s):

Nequirement(s)					
Spec	Item Requirement		Applicable		
§2.1049,	a)	a) 99% Occupied Bandwidth(kHz)			
§22.917,			V		
§22.905	b)	26 dB Bandwidth(kHz)			
§24.238			~		
§27.53(a)					
Test Setup					
	-	- 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 middle channel				
	for the highest RF powers.				
Remark					
Result	▼ Pa	rss 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	245.2996	315.586
190	836.6	244.7215	315.430
251	848.8	243.7506	312.608

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	241.7208	320.423
661	1880.0	247.7999	317.165
810	1909.8	247.0860	317.710

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1498	4.671
4175	835.0	4.1601	4.684
4233	846.6	4.1538	4.705

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1532	4.702
9400	1880.0	4.1596	4.705
9538	1907.6	4.1654	4.706

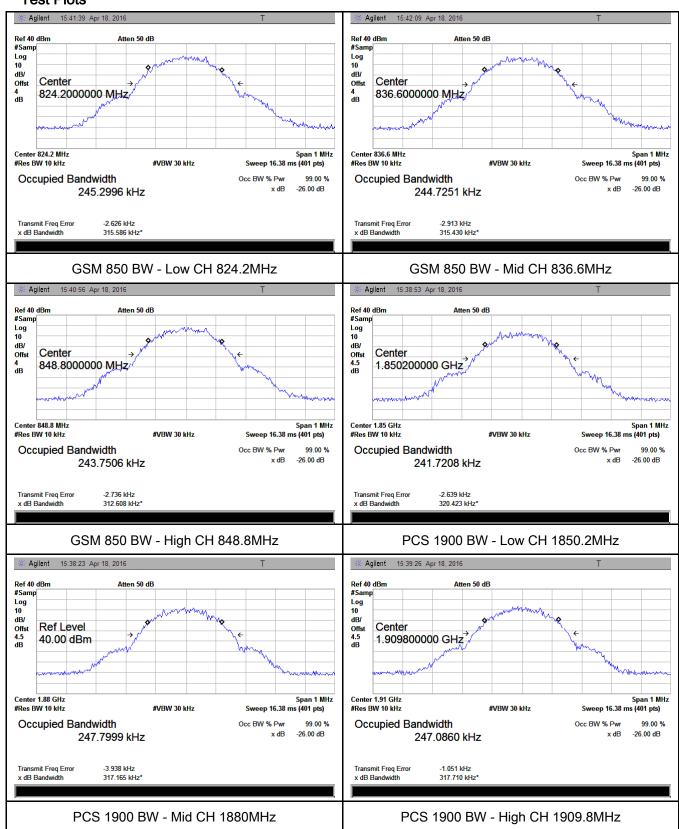
UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1712.6	4.1686	4.669
1413	1732.6	4.1641	4.708
1512	1752.4	4.1627	4.699



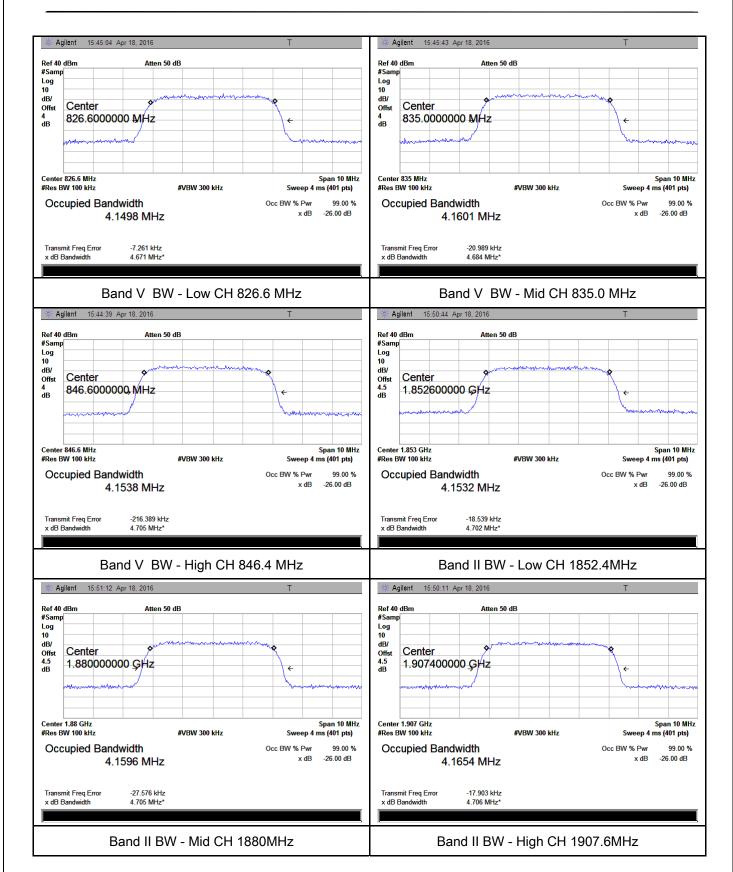
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Test Plots



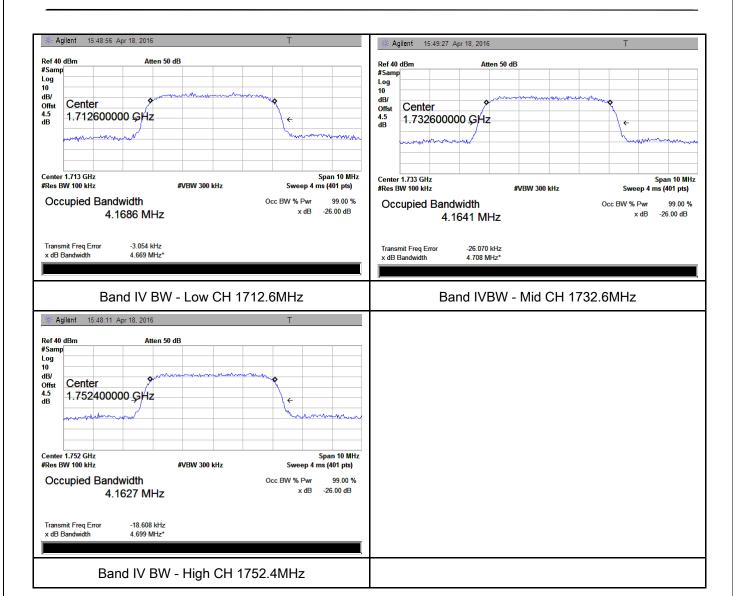


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6.5 Spurious Emissions at Antenna Terminals

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	April 18, 2016
Tested By :	Winnie Zhang

Requirement(s):

Requirement(s).			
Spec	Item	Requirement Applicable	
§2.1051,		The power of any emission outside of the authorized	
§22.917(a)&	۵)	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			
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 powers were measured. Setting RBW as roughly BW/100. 		
Remark			
Result	☑ Pa	ass Fail	

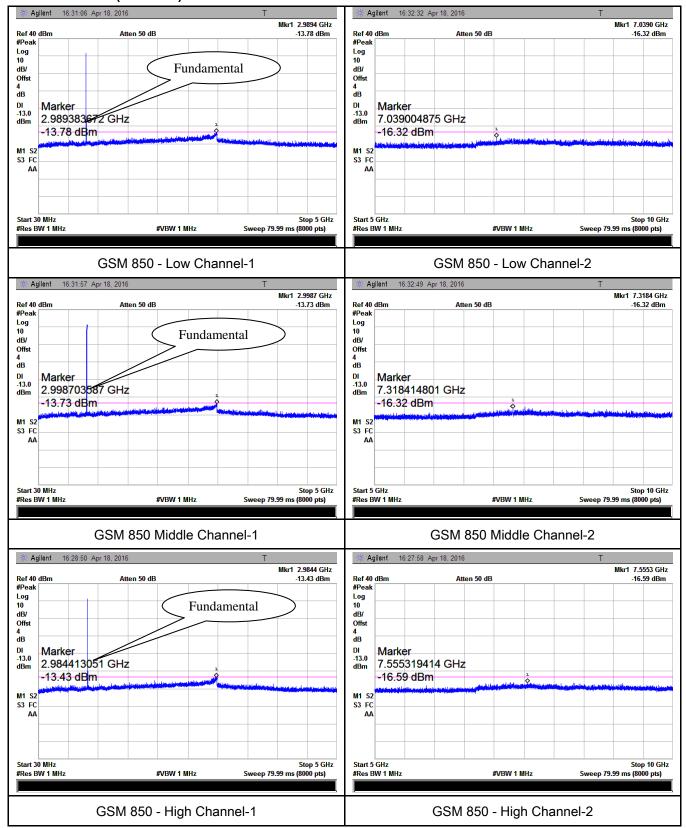
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Test Plots

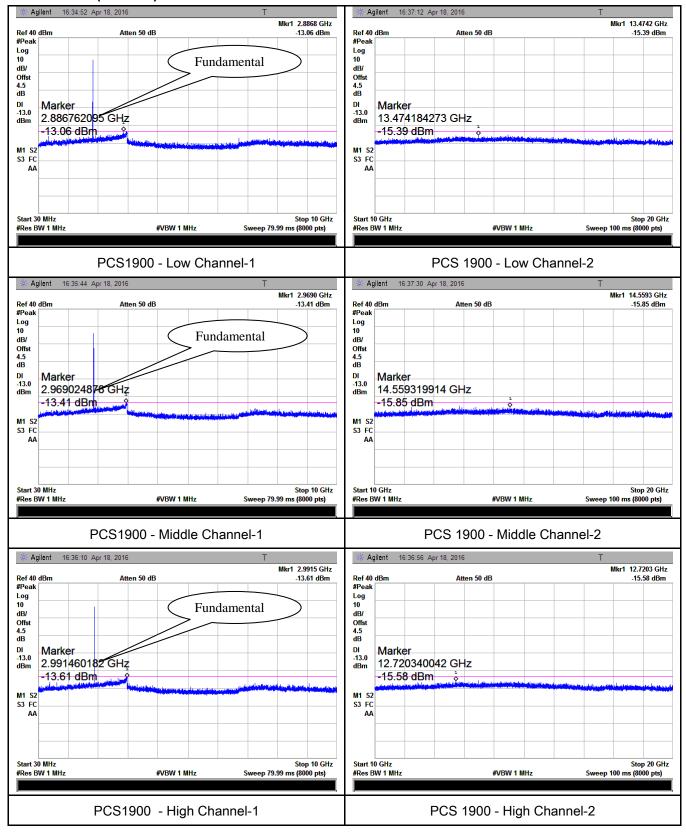
Cellular Band (Part 22H) result





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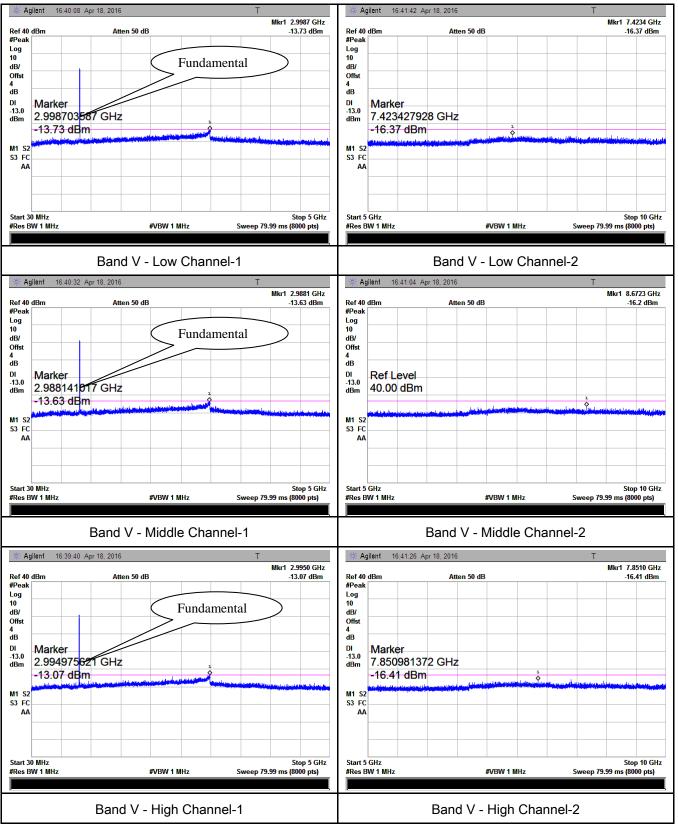
PCS Band (Part24E) result





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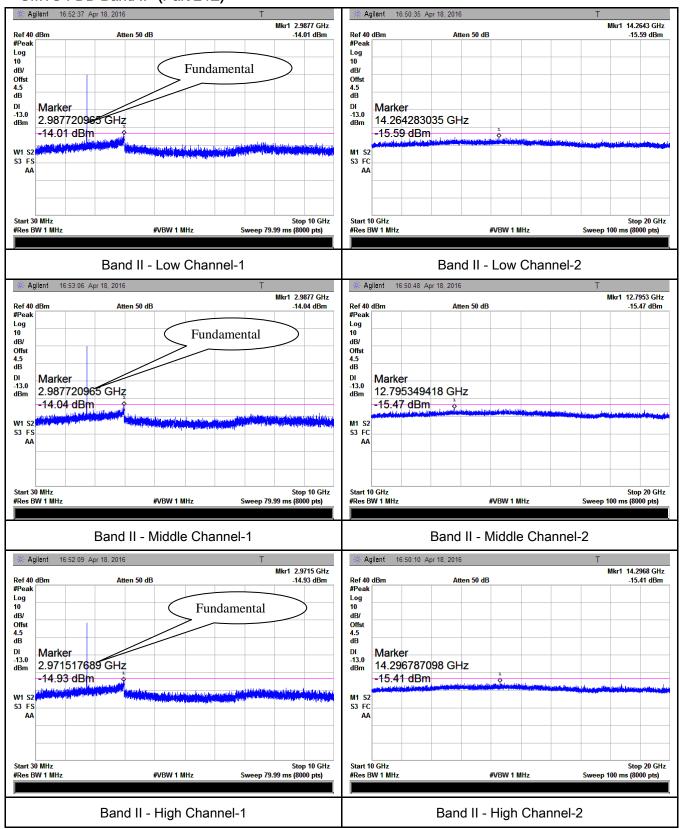
UMTS-FDD Band V (Part 22H)





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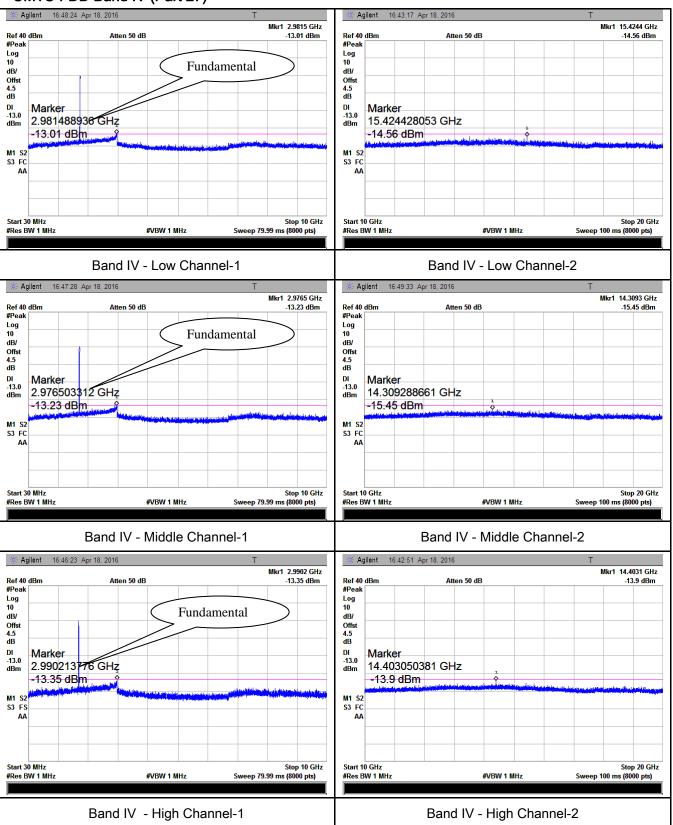
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)





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6.6 Spurious Radiated Emissions

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
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 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) 				



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Remark		
Result	Pass	Fail

Test Data Yes

Test Plot Yes (See below) N/A



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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	-42.05	V	7.95	0.78	-34.88	-13	-21.88
1648.4	-44.6	Н	7.95	0.78	-37.43	-13	-24.43
421.3	-51.29	V	6.5	0.3	-45.09	-13	-32.09
853.9	-49.68	Н	6.9	0.44	-43.22	-13	-30.22

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	-41.89	V	7.95	0.78	-34.72	-13	-21.72
1673.2	-43.77	Н	7.95	0.78	-36.6	-13	-23.6
421.5	-52.62	V	6.5	0.3	-46.42	-13	-33.42
853.3	-50.14	Н	6.9	0.44	-43.68	-13	-30.68

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	-41.69	V	7.95	0.78	-34.52	-13	-21.52
1697.6	-42.56	Н	7.95	0.78	-35.39	-13	-22.39
422.1	-53.03	V	6.5	0.3	-46.83	-13	-33.83
853.6	-50.99	Н	6.9	0.44	-44.53	-13	-31.53

Note:

- 1, The testing has been conformed to 10*848.8MHz=8,488MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and -Axis were investigated. The results above show only the worst case.



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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	-48.67	V	10.25	2.73	-41.15	-13	-28.15
3700.4	-48.25	Н	10.25	2.73	-40.73	-13	-27.73
422.4	-53.74	V	6.5	0.3	-47.54	-13	-34.54
852.8	-51.32	Н	6.9	0.44	-44.86	-13	-31.86

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	-50.34	V	10.25	2.73	-42.82	-13	-29.82
3760	-49.76	Н	10.25	2.73	-42.24	-13	-29.24
422.5	-53.15	V	6.5	0.3	-46.95	-13	-33.95
852.4	-51.69	Н	6.9	0.44	-45.23	-13	-32.23

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	49.68	V	10.36	2.73	57.31	-13	70.31
3819.6	-49.26	Η	10.36	2.73	-41.63	-13	-28.63
421.8	-53.98	٧	6.5	0.3	-47.78	-13	-34.78
853.6	-52.04	Н	6.9	0.44	-45.58	-13	-32.58

Note:

- 1, The testing has been conformed to 10*1909.8MHz=19,098MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and -Axis were investigated. The results above show only the worst case.



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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	-45.79	٧	7.95	0.78	-38.62	-13	-25.62
1652.8	-44.25	Η	7.95	0.78	-37.08	-13	-24.08
423.5	-53.89	V	6.5	0.3	-47.69	-13	-34.69
854.2	-52.04	Н	6.9	0.44	-45.58	-13	-32.58

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	-50.01	V	7.95	0.78	-42.84	-13	-29.84
1670	-47.38	Η	7.95	0.78	-40.21	-13	-27.21
423.2	-53.46	V	6.5	0.3	-47.26	-13	-34.26
854.1	-50.67	Н	6.9	0.44	-44.21	-13	-31.21

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-49.38	V	7.95	0.78	-42.21	-13	-29.21
1693.2	-47.64	Н	7.95	0.78	-40.47	-13	-27.47
423.9	-53.16	V	6.5	0.3	-46.96	-13	-33.96
854.7	-52.22	Н	6.9	0.44	-45.76	-13	-32.76

Note:

- 1, The testing has been conformed to 10*846.6MHz=8,466MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and -Axis were investigated. The results above show only the worst case.



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UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Gain Loss Reading		Limit (dBm)	Margin (dB)		
3704.8	-48.36	V	10.25	2.73	-40.84	-13	-27.84
3704.8	-50.48	Н	10.25	2.73	-42.96	-13	-29.96
422.8	-52.68	V	6.5	0.3	-46.48	-13	-33.48
852.4	-51.33	Н	6.9	0.44	-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)
3760	-48.34	V	10.25	2.73	-40.82	-13	-27.82
3760	-49.67	Н	10.25	2.73	-42.15	-13	-29.15
422.7	-53.14	V	6.5	0.3	-46.94	-13	-33.94
852.7	-52.13	Н	6.9	0.44	-45.67	-13	-32.67

High channel

Frequency (MHz)	Substituted level (dBm)	Gain		Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-48.57	V	10.36	2.73	-40.94	-13	-27.94
3815.2	-49.88	Н	10.36	2.73	-42.25	-13	-29.25
422.3	-52.69	V	6.5	0.3	-46.49	-13	-33.49
852.5	-49.87	Н	6.9	0.44	-43.41	-13	-30.41

Note:

- 1, The testing has been conformed to 10*1907.6MHz=19,076MHz
- 2, All other emissions more than 30 dB below the limit
- $3, X-Axis, Y-Axis \ and \ -Axis \ were \ investigated.$ The results above show only the worst case.



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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	-45.86	V	10.07	2.52	-38.31	-13	-25.31
3424.8	-47.98	Н	10.07	2.52	-40.43	-13	-27.43
323.5	-50.89	٧	6.4	0.26	-44.75	-13	-31.75
738.2	-52.15	Н	7.1	0.42	-45.47	-13	-32.47

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3480	-46.28	V	10.09	2.52	-38.71	-13	-25.71
3480	-45.69	Н	10.09	2.52	-38.12	-13	-25.12
323.9	-51.03	V	6.4	0.26	-44.89	-13	-31.89
738.8	-52.97	Н	7.1	0.42	-46.29	-13	-33.29

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	-45.34	V	10.09	2.52	-37.77	-13	-24.77
3505.2	-46.29	Н	10.09	2.52	-38.72	-13	-25.72
324.3	-51.29	V	6.4	0.26	-45.15	-13	-32.15
739.4	-51.64	Н	7.1	0.42	-44.96	-13	-31.96

Note:

- 1, The testing has been conformed to 10*1752.6MHz=17,526MHz
- 2, All other emissions more than 30 dB below the limit
- ${\it 3, X-Axis, Y-Axis \ and -Axis \ were \ investigated. \ The \ results \ above \ show \ only \ the \ worst \ case.}$



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6.7 Band Edge

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	April 18, 2016
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			
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)	
823.9950	-14.07	-13	
849.0175	-13.18	-13	

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1849.9950	-18.08	-13	
1910.0025	-18.54	-13	

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
823.900	-24.99	-13	
849.075	-28.55	-13	

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.900	-27.52	-13
1910.075	-29.89	-13

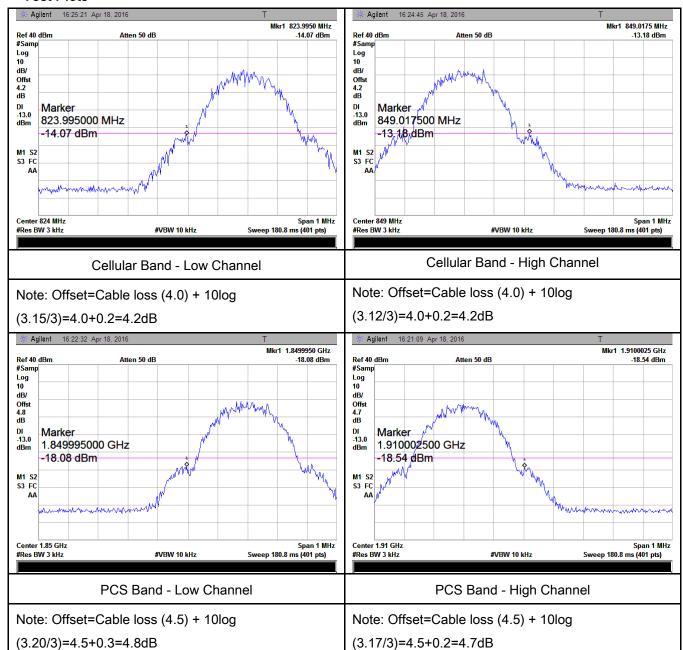
UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)	
1709.900	-25.21	-13	
1755.025	-26.61	-13	



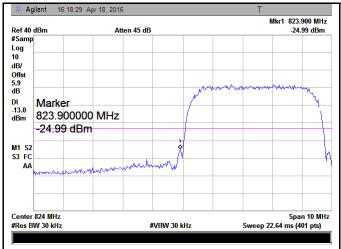
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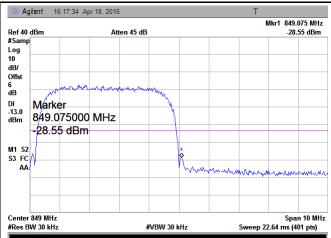
Test Plots





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UMTS-FDD Band V - Low Channel

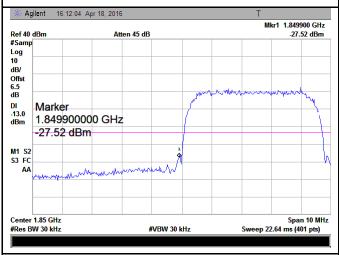
Note: Offset=Cable loss (4.0) + 10log

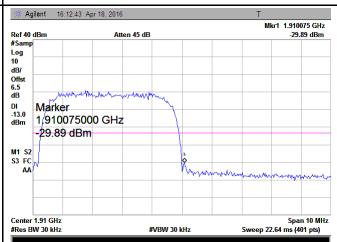
(46.71/30)=4.0+1.9=5.9dB

UMTS-FDD Band V - High Channel

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

(47.05/30)=4.0+2.0=6.0dB





UMTS-FDD Band II - Low Channel

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

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

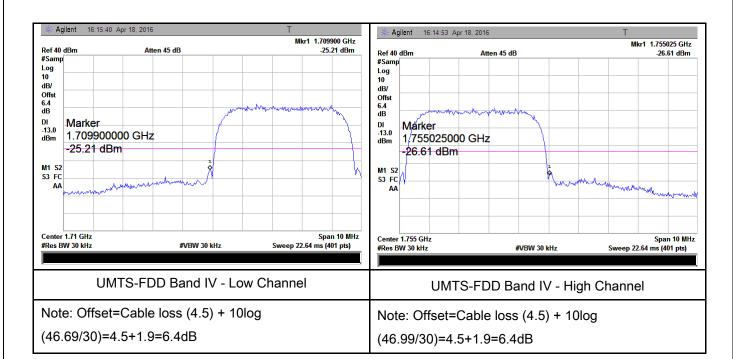
UMTS-FDD Band II - High Channel

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

(47.06/30)=4.5+2.0=6.5dB



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6.8 Frequency Stability

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	April 19, 2016
Tested By :	Winnie Zhang

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)	
§24.235	a)	25 to 50	20.0	20.0	50.0	~
§ 27.5(h);		50 to 450	5.0	5.0	50.0	
§ 27.54		45 to 512	2.5	5.0	.0	
9 21.04		821 to 896	1.5	2.5	2.5	
		928 to 29.	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	iency stability sha	I be sufficient to	
		ensure that the fundamental emissions stay within the authorized				
		frequency block.				
Test setup						



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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		-14	0.0167	2.5	
0		-11	0.0131	2.5	
10	3.7	-9	0.0108	2.5	
20		-7	0.0084	2.5	
30		-8	0.0096	2.5	
40		-9	0.0108	2.5	
50		-11	0.0131	2.5	
55		-13	0.0155	2.5	
25	4.2	-12	0.0143	2.5	
25	3.5	-14	0.0167	2.5	

PCS Band (Part 24E) result

. CO Band	1 00 Band (1 art 24L) result				
	Middle Channel, $f_0 = 1880 \text{ MHz}$				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-13	0.0069	2.5	
0		-10	0.0053	2.5	
10	3.7	-9	0.0048	2.5	
20		-5	0.0027	2.5	
30		-10	0.0053	2.5	
40		-12	0.0064	2.5	
50		-14	0.0074	2.5	
55		-15	0.0080	2.5	
25	4.2	-17	0.0090	2.5	
25	3.5	-12	0.0064	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		14	0.0168	2.5	
0		11	0.0132	2.5	
10	3.7	10	0.0120	2.5	
20		8	0.0096	2.5	
30		10	0.0120	2.5	
40		12	0.0144	2.5	
50		13	0.0156	2.5	
55		15	0.0180	2.5	
25	4.2	12	0.0144	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		17	0.0090	2.5	
0		12	0.0064	2.5	
10	3.7	8	0.0043	2.5	
20		5	0.0027	2.5	
30		6	0.0032	2.5	
40		12	0.0064	2.5	
50		15	0.0080	2.5	
55		17	0.0090	2.5	
25	4.2	12	0.0064	2.5	
25	3.5	18	0.0096	2.5	



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UMTS-FDD Band IV (Part 27)

	Middle Channel, f _o = 1732.6 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		11	0.0063	2.5	
0		9	0.0052	2.5	
10	3.7	7	0.0040	2.5	
20		5	0.0029	2.5	
30		6	0.0035	2.5	
40		8	0.0046	2.5	
50		10	0.0058	2.5	
55		10	0.0058	2.5	
25	4.2	8	0.0046	2.5	
25	3.5	9	0.0052	2.5	



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Annex A. TEST INSTRUMENT

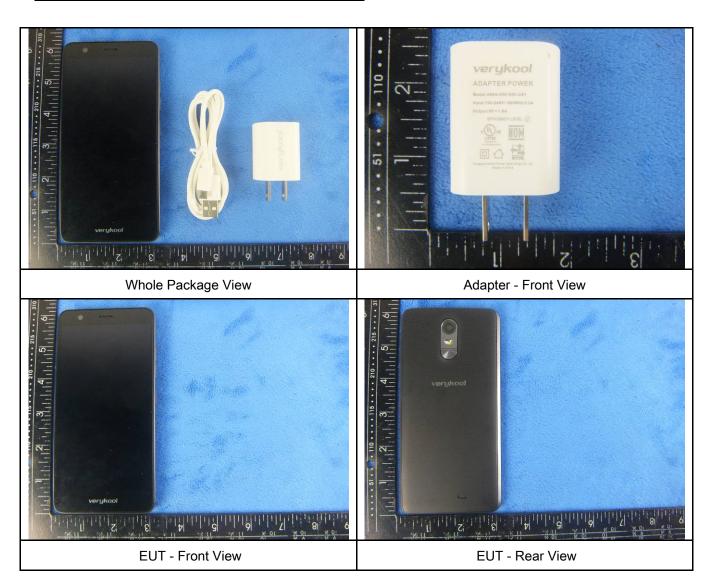
Instrument	Model Serial #		Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/16/2015	09/15/2016	<u> </u>
Power Splitter	1#	1#	09/01/2015	08/31/2016	~
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	\
Temperature/Humidity Chamber	UHL-270	001	10/09/2015	10/08/2016	>
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	•
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	<u>\</u>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	Y
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<u>\</u>
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/21/2015	09/20/2016	\
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/24/2015	09/23/2016	(
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	\
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/17/2015	09/16/2016	\
Tunable Notch Filter	3NF- 800/1000-S	AA4	09/01/2015	08/31/2016	>
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	09/01/2015	08/31/2016	V



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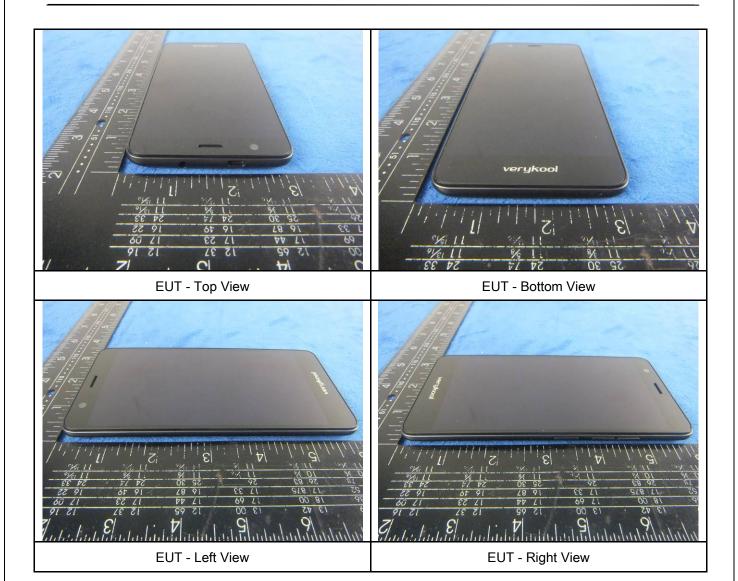
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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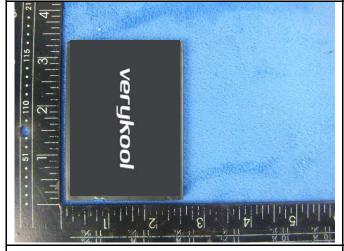
Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 1

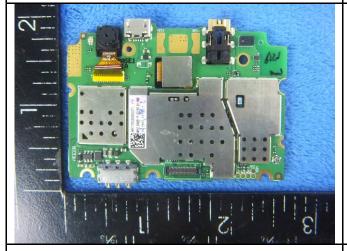
Cover Off - Top View 2





Battery - Front View

Battery - Rear View



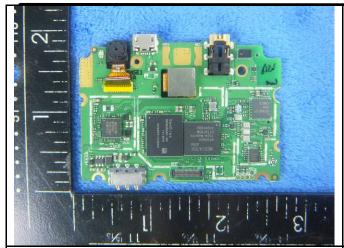
Mainboard with Shielding - Front View



Mainboard with Shielding - Rear View

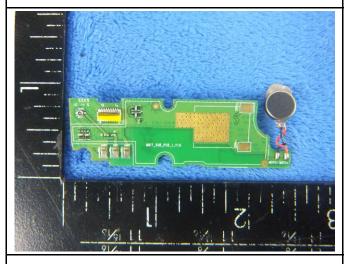


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Mainboard without Shielding - Front View

Mainboard without Shielding - Rear View





Small Mainboard - Front View

Small Mainboard - Front View



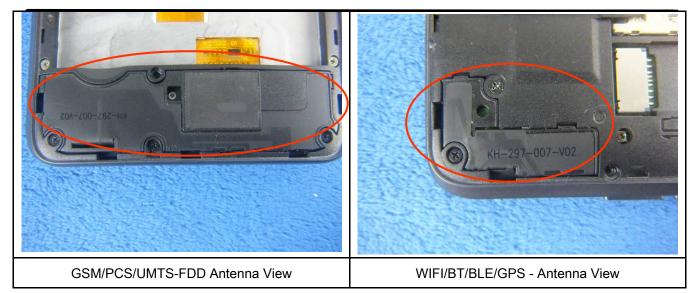


LCD - Front View

LCD - Rear View



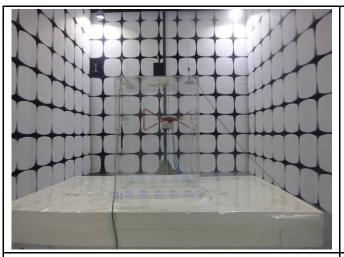
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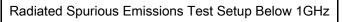


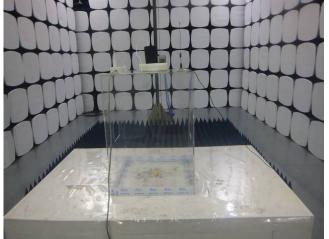


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Annex B.iii. Photograph: Test Setup Photo







Radiated Spurious Emissions Test Setup Above 1GHz

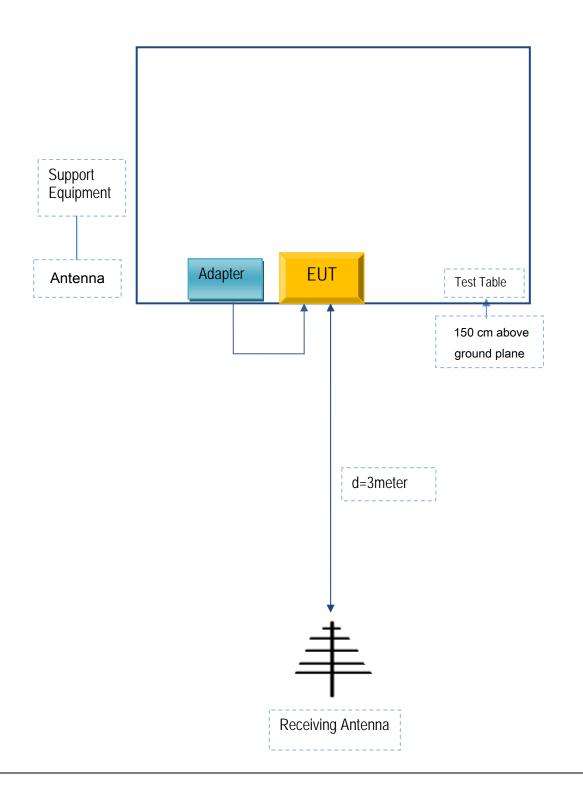


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Verykool USA Inc	Adapter	A98A-050100U-US1	Y11243563

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	Y11243563



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Annex C.ii. EUT OPERATING CONKITIONS

N/A



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

N/A



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Annex E. DECLARATION OF SIMILARITY

N/A