RF TEST REPORT



Report No.: 17070023-FCC-R1
Supersede Report No.: N/A

	Anda Technologies S.A.C		
Anda Watch			
W010R1			
N/A			
Test Standard FCC Part 22(H):2016 ;FCC Part 24(E):2016; FCC Part 27:2016;		016; FCC Part 27:2016;	
ANSI/TIA-603	-D: 2010		
January 13 to February 05, 2017			
February 06, 2017			
Test Result Pass Fail			
Equipment complied with the specification			
Equipment did not comply with the specification			
LOVEN LUO David Huang			
o	David Huang		
eer	Checked By	首號等接受影響	
	W010R1 N/A FCC Part 22(I ANSI/TIA-603 January 13 to February 06, 2 Pass ed with the specific comply with the specific complex com	W010R1 N/A FCC Part 22(H):2016 ;FCC Part 24(E):2 ANSI/TIA-603-D: 2010 January 13 to February 05, 2017 February 06, 2017 Pass Fail ed with the specification comply with the specification David Huang David Huang	

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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
17070023-FCC-R1	NONE	Original	February 06, 2017

2. Customer information

Applicant Name	Anda Technologies S.A.C
Applicant Add	Avenida Santa Cruz No. 888, Piso 4, Miraflores, Lima, Peru
Manufacturer	Borqs Beijing Ltd.
Manufacturer Add	Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road,
	Chaoyang District Beijing, 100015 China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
	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 of Radiated	Radiated Emission Descriptor To Chambles vo 0	
Emission	Radiated Emission Program-To Shenzhen v2.0	
Test Software of	EZ-EMC(ver.lcp-03A1)	
Conducted Emission		



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4. Equipment under Test (EUT) Information

Description of EUT: Anda Watch

Main Model: W010R1

Serial Model: N/A

Date EUT received: January 12, 2017

Test Date(s): January 13 to February 05, 2017

Equipment Category: PCE

> GSM850: -5.00dBi PCS1900: 1.4dBi

UMTS-FDD Band V: -5.00dBi UMTS-FDD Band IV: 0.84dBi

UMTS-FDD Band II: 1.4dBi

Antenna Gain: LTE Band II:1.41dBi

LTE Band IV: 0.84dBi

WIFI: -1.5dBi

Bluetooth/BLE: -1.5dBi

GPS: 0.48dBi

Antenna Type: PIFA antenna

> GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

LTE Band: QPSK, 16QAM Type of Modulation:

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



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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 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

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

RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

GSM Vioce:GSM850:32.5 dBm

PCS1900: 30.91 dBm

GPRS:GSM850: 32.47 dBm

PCS1900: 30.9 dBm

EGPRS(MCS1):GSM850: 32.45 dBm

PCS1900: 30.65 dBm

EGPRS(MCS5):GSM850: 26.15 dBm

Maximum Conducted PCS1900: 25.95 dBm

AV Power to Antenna: RMC:UMTS-FDD Band V: 19.87 dBm

UMTS-FDD Band II: 20.69 dBm

UMTS-FDD Band IV: 20.75 dBm

HSDPA:UMTS-FDD Band V: 19.15 dBm

UMTS-FDD Band II: 19.96 dBm

UMTS-FDD Band IV: 19.99 dBm

HSUPA:UMTS-FDD Band V: 19.16 dBm

UMTS-FDD Band II: 19.99 dBm

UMTS-FDD Band IV: 19.95 dBm

GSM Vioce:GSM850: 25.35 dBm / ERP

PCS1900: 32.31 dBm / EIRP

ERP/EIRP: GPRS:GSM850: 25.32 dBm / ERP

PCS1900: 32.30dBm / EIRP

EGPRS(MCS5):GSM850:19.00 dBm / ERP



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PCS1900: 27.35 dBm / EIRP

RMC:UMTS-FDD Band V: 14.33 dBm / ERP

UMTS-FDD Band II: 24.70 dBm / EIRP

UMTS-FDD Band IV: 23.87 dBm / EIRP

HSUPA:UMTS-FDD Band V: 13.74 dBm / ERP

UMTS-FDD Band II: 23.78 dBm / EIRP

UMTS-FDD Band IV: 23.02 dBm / EIRP

HSDPA:UMTS-FDD Band V: 13.73 dBm / ERP

UMTS-FDD Band II: 23.78 dBm / EIRP

UMTS-FDD Band IV: 23.04 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

Bluetooth: 79CH

BLE: 40CH

GPS:1CH

Port: Data and charging Port

Adapter:

Model: ASUC37a-050100

Input: AC100-240V~50/60Hz,0.3A

Input Power:
Output: DC 5.0V,1.0A

Battery:

Spec: 4.35V,400mAh

Trade Name: Anda Watch

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

FCC ID: 2ALJB-W010R1



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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	
§ 2.1049; § 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	O li	
§ 27.53(h)	Out of band emission, Band Edge	Compliance	
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. temperature	Compliance	
§ 27.5(h); § 27.54	Frequency stability vs. voltage	Compliance	

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

Measurement Uncertainty

Emissions					
Test Item Description Und					
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: 17070023-FCC-R1



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6.2 RF Output Power

Temperature	23 °C		
Relative Humidity	51%		
Atmospheric Pressure	1018mbar		
Test date :	January 18/19/20, 2017		
Tested By:	Loren Luo		

Requirement(s):

Requirement(s):									
Spec	Item	Requirement Applicable							
§22.913 (a)	a)	RP:38.45dBm							
§24.232 (c)	b)	RP:33dBm							
§27.50 (c)	c)	EIRP: 30dBm	V						
Test Setup		Base Station EUT							
Test Procedure	- - - F	For Conducted Power: The transmitter output port was connected to base station. Set EUT at maximum power through base station. Select lowest, middle, and highest channels for each band and different test mode. For ERP/EIRP: According with KDB 971168 v02r02 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.							



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



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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	32.45	32.5	32.49	32.5±1	30.82	30.73	30.91	31±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.44	32.47	32.45	32±1	30.81	30.72	30.9	31±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	29.16	29.17	29.22	29±1	28.09	28.35	28.24	28±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	25.28	25.37	25.52	25.5±1	24.63	24.48	24.37	24.5±1
EGPRS Multi-Slot Class 8 (1 uplink) GMSK MCS1	32.43	32.45	32.44	32.5±1	30.65	30.58	30.5	31±1
EGPRS Multi-Slot Class 10 (2 uplink) GMSK MCS1	29.13	29.15	29.13	29±1	27.98	28.2	28.05	28±1
EGPRS Multi-Slot Class 12 (4 uplink) GMSK MCS1	25.2	25.34	25.36	25.5±1	24.48	24.34	24.2	24.5±1
EGPRS Multi-Slot Class 8 (1 uplink) 8PSK MCS5	26.15	26.13	26.08	26±1	25.95	25.82	25.68	25.5±1
EGPRS Multi-Slot Class 10 (2 uplink) 8PSK MCS5	22.89	22.87	22.85	22.5±1	22.59	22.47	22.39	22.5±1
EGPRS Multi-Slot Class 12 (4 uplink) 8PSK MCS5	19.54	19.45	19.5	19.5±1	19.2	18.85	18.72	19±1



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Remark:

GPRS, CS1 coding scheme.

EGPRS, MCS1 coding scheme.

EGPRS, MCS5 coding scheme.

 $\label{eq:multi-Slot} \textit{Class 8} \; , \; \textit{Support Max 4 downlink}, \; \textit{1 uplink} \; , \; \textit{5 working link} \;$

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	Oh a ma a l	F	Average power	Tune up	
configuration	Channel	Frequency	(dBm)	Power tolerant	
DMO	4132	826.4	19.87	20±1	
RMC	4175	835	19.71	20±1	
12.2kbps	4233	846.6	19.63	20±1	
LICDDA	4132	826.4	19.06	19±1	
HSDPA Subtest1	4175	835	19.07	19±1	
Sublest I	4233	846.6	19.05	19±1	
LICDDA	4132	826.4	19.13	19±1	
HSDPA Subtest2	4175	835	19.1	19±1	
Sublesiz	4233	846.6	19.15	19±1	
LICDDA	4132	826.4	19.02	19±1	
HSDPA Subtest3	4175	835	19.07	19±1	
Sublesis	4233	846.6	19.09	19±1	
HSDPA	4132	826.4	19.11	19±1	
Subtest4	4175	835	19.15	19±1	
Sublesi4	4233	846.6	19.09	19±1	
LICLIDA	4132	826.4	19.07	19±1	
HSUPA Subtest1	4175	835	19.1	19±1	
Sublest I	4233	846.6	19.16	19±1	
LICLIDA	4132	826.4	19.13	19±1	
HSUPA Subtest2	4175	835	19.05	19±1	
Sublesiz	4233	846.6	19.09	19±1	
HOUDA	4132	826.4	19.13	19±1	
HSUPA Subtest3	4175	835	19.09	19±1	
Sublesis	4233	846.6	19.15	19±1	
HELIDA	4132	826.4	19.11	19±1	
HSUPA	4175	835	19.08	19±1	
Subtest4	4233	846.6	19.15	19±1	
LICUIDA	4132	826.4	19.08	19±1	
HSUPA Subtost5	4175	835	19.11	19±1	
Subtest5	4233	846.6	19.1	19±1	



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UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
RMC	9262	1852.4	20.69	20.5±1
12.2kbps	9400	1880	20.43	20.5±1
12.28005	9538	1907.6	20.41	20.5±1
HSDPA	9262	1852.4	19.85	20±1
Subtest1	9400	1880	19.83	20±1
Sublest I	9538	1907.6	19.88	20±1
HCDDA	9262	1852.4	19.96	20±1
HSDPA Subtest2	9400	1880	19.92	20±1
Subtest2	9538	1907.6	19.95	20±1
HODDA	9262	1852.4	19.73	20±1
HSDPA	9400	1880	19.74	20±1
Subtest3	9538	1907.6	19.77	20±1
HODDA	9262	1852.4	19.82	20±1
HSDPA	9400	1880	19.84	20±1
Subtest4	9538	1907.6	19.81	20±1
HOUDA	9262	1852.4	19.65	20±1
HSUPA	9400	1880	19.63	20±1
Subtest1	9538	1907.6	19.67	20±1
HOURA	9262	1852.4	19.83	20±1
HSUPA	9400	1880	19.86	20±1
Subtest2	9538	1907.6	19.89	20±1
HOUDA	9262	1852.4	19.99	20±1
HSUPA	9400	1880	19.96	20±1
Subtest3	9538	1907.6	19.92	20±1
LIQUIDA	9262	1852.4	19.62	20±1
HSUPA	9400	1880	19.61	20±1
Subtest4	9538	1907.6	19.69	20±1
1101154	9262	1852.4	19.64	20±1
HSUPA Subtoat5	9400	1880	19.65	20±1
Subtest5	9538	1907.6	19.67	20±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	20.75	20.5±1
	1413	1732.6	20.49	20.5±1
12.2kbps	1512	1752.4	20.63	20.5±1
LICDDA	1313	1712.6	19.73	20±1
HSDPA Subtest1	1413	1732.6	19.75	20±1
Sublest i	1512	1752.4	19.79	20±1
LIODDA	1313	1712.6	19.74	20±1
HSDPA	1413	1732.6	19.77	20±1
Subtest2	1512	1752.4	19.76	20±1
	1313	1712.6	19.93	20±1
HSDPA	1413	1732.6	19.99	20±1
Subtest3	1512	1752.4	19.92	20±1
LIODEA	1313	1712.6	19.73	20±1
HSDPA	1413	1732.6	19.75	20±1
Subtest4	1512	1752.4	19.74	20±1
HOUDA	1313	1712.6	19.83	20±1
HSUPA	1413	1732.6	19.85	20±1
Subtest1	1512	1752.4	19.9	20±1
HOURA	1313	1712.6	19.72	20±1
HSUPA	1413	1732.6	19.75	20±1
Subtest2	1512	1752.4	19.79	20±1
HOUDA	1313	1712.6	19.93	20±1
HSUPA	1413	1732.6	19.95	20±1
Subtest3	1512	1752.4	19.94	20±1
LICUIDA	1313	1712.6	19.82	20±1
HSUPA Subtost4	1413	1732.6	19.89	20±1
Subtest4	1512	1752.4	19.81	20±1
LICUDA	1313	1712.6	19.81	20±1
HSUPA Subtest5	1413	1732.6	19.83	20±1
Sublesto	1512	1752.4	19.82	20±1



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ERP & EIRP

GSM Voice

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	19.03	V	6.8	0.53	25.30	38.45
824.2	17.7	Н	6.8	0.53	23.97	38.45
836.6	19.08	V	6.8	0.53	25.35	38.45
836.6	17.95	Н	6.8	0.53	24.22	38.45
848.8	18.97	V	6.9	0.53	25.34	38.45
848.8	17.79	Н	6.9	0.53	24.16	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	25.19	V	7.88	0.85	32.22	33
1850.2	24.11	Н	7.88	0.85	31.14	33
1880	25.1	V	7.88	0.85	32.13	33
1880	23.92	Н	7.88	0.85	30.95	33
1909.8	25.3	V	7.86	0.85	32.31	33
1909.8	24.15	Н	7.86	0.85	31.16	33



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GPRS:

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	19.02	V	6.8	0.53	25.29	38.45
824.2	17.76	Н	6.8	0.53	24.03	38.45
836.6	19.05	V	6.8	0.53	25.32	38.45
836.6	17.88	Н	6.8	0.53	24.15	38.45
848.8	18.93	V	6.9	0.53	25.30	38.45
848.8	17.74	Н	6.9	0.53	24.11	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	25.18	V	7.88	0.85	32.21	33
1850.2	25.04	Н	7.88	0.85	32.07	33
1880	25.09	V	7.88	0.85	32.12	33
1880	24.86	Н	7.88	0.85	31.89	33
1909.8	25.29	V	7.86	0.85	32.30	33
1909.8	25.17	Н	7.86	0.85	32.18	33



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EGPRS (MCS5):

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	12.73	V	6.8	0.53	19.00	38.45
824.2	11.64	Н	6.8	0.53	17.91	38.45
836.6	12.71	V	6.8	0.53	18.98	38.45
836.6	11.19	Н	6.8	0.53	17.46	38.45
848.8	12.56	V	6.9	0.53	18.93	38.45
848.8	11.16	Н	6.9	0.53	17.53	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	20.32	V	7.88	0.85	27.35	33	
1850.2	19.13	Н	7.88	0.85	26.16	33	
1880	20.19	V	7.88	0.85	27.22	33	
1880	18.96	Н	7.88	0.85	25.99	33	
1909.8	20.07	V	7.86	0.85	27.08	33	
1909.8	18.92	Н	7.86	0.85	25.93	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	8.06	V	6.8	0.53	14.33	38.45
826.4	6.94	Н	6.8	0.53	13.21	38.45
835	8.03	V	6.8	0.53	14.30	38.45
835	6.88	Н	6.8	0.53	13.15	38.45
846.6	7.79	V	6.9	0.53	14.16	38.45
846.6	6.71	Н	6.9	0.53	13.08	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	17.52	V	7.88	0.85	24.55	33
1852.4	16.34	Н	7.88	0.85	23.37	33
1880	17.51	V	7.88	0.85	24.54	33
1880	16.29	Н	7.88	0.85	23.32	33
1907.6	17.69	V	7.86	0.85	24.70	33
1907.6	16.58	Н	7.86	0.85	23.59	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	16.86	V	7.76	0.82	23.80	30
1712.4	15.78	Н	7.76	0.82	22.72	30
1740	16.67	V	7.76	0.82	23.61	30
1740	15.64	Н	7.76	0.82	22.58	30
1752.6	16.95	V	7.74	0.82	23.87	30
1752.6	15.77	Н	7.74	0.82	22.69	30



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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	7.43	V	6.8	0.53	13.70	38.45
826.4	6.36	Н	6.8	0.53	12.63	38.45
835	7.44	V	6.8	0.53	13.71	38.45
835	6.32	Н	6.8	0.53	12.59	38.45
846.6	7.36	V	6.9	0.53	13.73	38.45
846.6	6.29	Н	6.9	0.53	12.66	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	16.73	V	7.88	0.85	23.76	33
1852.4	15.54	Н	7.88	0.85	22.57	33
1880	16.69	V	7.88	0.85	23.72	33
1880	15.48	Н	7.88	0.85	22.51	33
1907.6	16.77	V	7.86	0.85	23.78	33
1907.6	15.61	Н	7.86	0.85	22.62	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	16.05	V	7.76	0.82	22.99	30
1712.4	14.91	Н	7.76	0.82	21.85	30
1740	16.07	V	7.76	0.82	23.01	30
1740	14.99	Н	7.76	0.82	21.93	30
1752.6	16.12	V	7.74	0.82	23.04	30
1752.6	15.05	Н	7.74	0.82	21.97	30



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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	7.47	V	6.8	0.53	13.74	38.45
826.4	6.29	Н	6.8	0.53	12.56	38.45
835	7.41	V	6.8	0.53	13.68	38.45
835	6.24	Н	6.8	0.53	12.51	38.45
846.6	7.33	V	6.9	0.53	13.70	38.45
846.6	6.18	Н	6.9	0.53	12.55	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	16.72	V	7.88	0.85	23.75	33
1852.4	15.61	Н	7.88	0.85	22.64	33
1880	16.75	V	7.88	0.85	23.78	33
1880	15.68	Н	7.88	0.85	22.71	33
1907.6	16.74	V	7.86	0.85	23.75	33
1907.6	15.62	Н	7.86	0.85	22.63	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	16.03	V	7.76	0.82	22.97	30
1712.4	14.94	Н	7.76	0.82	21.88	30
1740	16.06	V	7.76	0.82	23.00	30
1740	15	Н	7.76	0.82	21.94	30
1752.6	16.1	V	7.74	0.82	23.02	30
1752.6	14.98	Н	7.74	0.82	21.90	30



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6.3 Peak-Average Ratio

Temperature	23 °C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	January 18, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	V
§ 27.50(d)		exceed 13 db.	
Test Setup		Base Station Spectrum Analyzer EUT	

According with KDB 971168 v02r02

5.7.2 Alternate procedure for PAPR

5.1.2 Peak power measurements with a peak power meter

The total peak output power may be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

Test Procedure

5.2.3 Average power measurement with average power meter

As an alternative to the use of a spectrum/signal analyzer or EMI receiver to perform a measurement of the total in-band average output power, a wideband RF average power meter with a thermocouple detector or equivalent can be used under certain conditions

If the EUT can be configured to transmit continuously (i.e., the burst duty cycle ≥ 98%) and at all times the EUT is transmitting at is maximum output



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	power level, then a conventional wide-band RF power meter can be used.
	If the EUT cannot be configured to transmit continuously (i.e., the burst
	duty cycle < 98%), then there are two options for the use of an average
	power meter. First, a gated average power meter can be used to perform the
	measurement if the gating parameters can be adjusted such that the power is
	measured only over active transmission bursts at maximum output power
	levels. A conventional average power meter can also be used if the
	measured burst duty cycle is constant (i.e., duty cycle variations are less than
	± 2 percent) by performing the measurement over the on/off burst cycles and
	then correcting (increasing) the measured level by a factor equal to
	10log(1/duty cycle)
Remark	
Result	Pass Fail

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



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GSM: GSM 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	31.15	30.82	0.33
1880	31.1	30.73	0.37
1909.8	31.24	30.91	0.33

GPRS 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	31.22	30.81	0.41
1880	31.19	30.72	0.47
1909.8	31.27	30.9	0.37

EGPRS (MSC5) 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	26.35	25.95	0.4
1880	26.31	25.82	0.49
1909.8	26.33	25.68	0.65



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

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	21.1	20.69	0.41
1880	20.69	20.43	0.26
1907.6	20.88	20.41	0.47

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

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.6	21.33	20.75	0.58
1732.6	20.83	20.49	0.34
1752.4	20.92	20.63	0.29

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

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	20.04	19.65	0.39
1880	20.08	19.63	0.45
1907.6	20.11	19.67	0.44

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

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.6	20.13	19.83	0.3
1732.6	20.18	19.85	0.33
1752.4	20.12	19.9	0.22



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

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1852.4	20.18	19.85	0.33
1880	20.2	19.83	0.37
1907.6	20.19	19.88	0.31

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

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1712.6	20.35	19.73	0.62
1732.6	20.29	19.75	0.54
1752.4	20.27	19.79	0.48



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6.4 Occupied Bandwidth

Temperature	24 °C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	January 19, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Item Requirement		
§2.1049, §22.917,	a)	99% Occupied Bandwidth(kHz)	V	
§22.905 §24.238	b) 26 dB Bandwidth(kHz)		V	
§27.53(a)				
Test Setup	Base Station Spectrum Analyzer EUT			
Test Procedure	 The EUT was connected to Spectrum Analyzer and Base Station power divider. The 99% and 26 dB occupied bandwidth (BW) of the middle charfor the highest RF powers. 			
Remark				
Result	Pass Fail			

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



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GSM Voice:

Cellular Band (Part 22H) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	246.2096	317.464
190	836.6	246.1474	318.157
251	848.8	244.6274	316.216

PCS Band (Part 24E) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
512	1850.2	245.1912	318.643
661	1880.0	246.3498	325.646
810	1909.8	246.6157	319.320

GPRS:

Cellular Band (Part 22H) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	242.1026	316.071
190	836.6	245.0671	320.429
251	848.8	243.0301	316.098

PCS Band (Part 24E) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
512	1850.2	243.5906	319.179
661	1880.0	247.6735	317.221
810	1909.8	241.9342	317.949



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EGPRS (MCS 5):

Cellular Band (Part 22H) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	243.0015	315.779
190	836.6	240.9988	314.354
251	848.8	242.8601	316.452

PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.4847	332.267
661	1880.0	242.9163	316.594
810	1909.8	247.3667	318.453



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RMC:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1359	4.735
4175	835.0	4.1370	4.717
4233	846.6	4.1348	4.743

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1474	4.794
9400	1880.0	4.1386	4.752
9538	1907.6	4.1435	4.755

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.1512	4.750
1413	1733	4.1424	4.782
1512	1752	4.1521	4.783



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HSUPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.6	4.1293	4.750
4175	835.0	4.1553	4.764
4233	846.6	4.1331	4.709

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1528	4.781
9400	1880.0	4.1494	4.755
9538	1907.6	4.1399	4.742

UMTS-FDD Band IV (Part 27)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.1497	4.784
1413	1733	4.1473	4.756
1512	1752	4.1625	4.772



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HSDPA:

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1334	4.761
4175	835.0	4.1182	4.735
4233	846.6	4.1361	4.734

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1436	4.774
9400	1880.0	4.1414	4.735
9538	1907.6	4.1308	4.786

UMTS-FDD Band IV (Part 27)

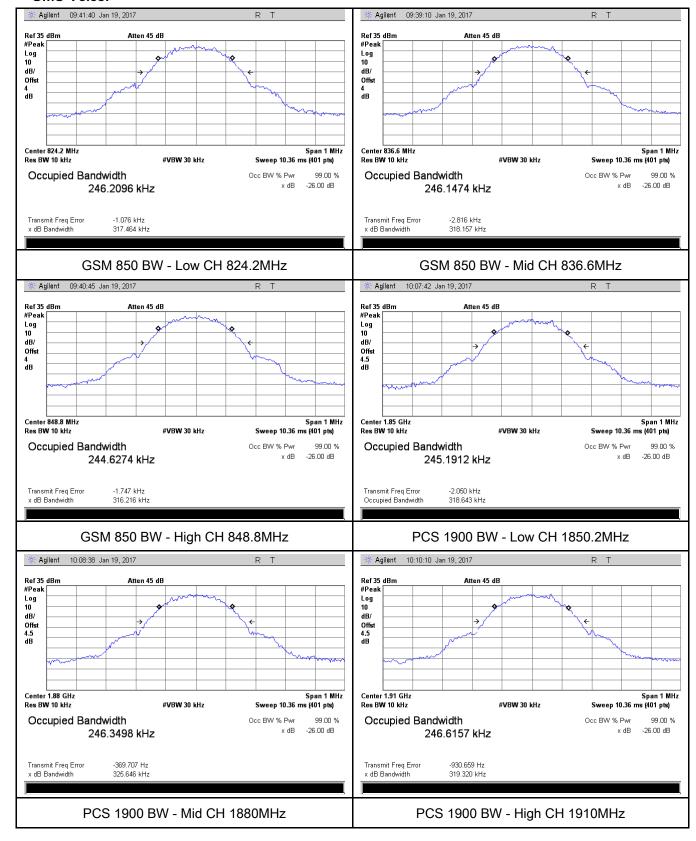
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1313	1713	4.1604	4.781
1413	1733	4.1310	4.730
1512	1752	4.1417	4.773



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Test Plots

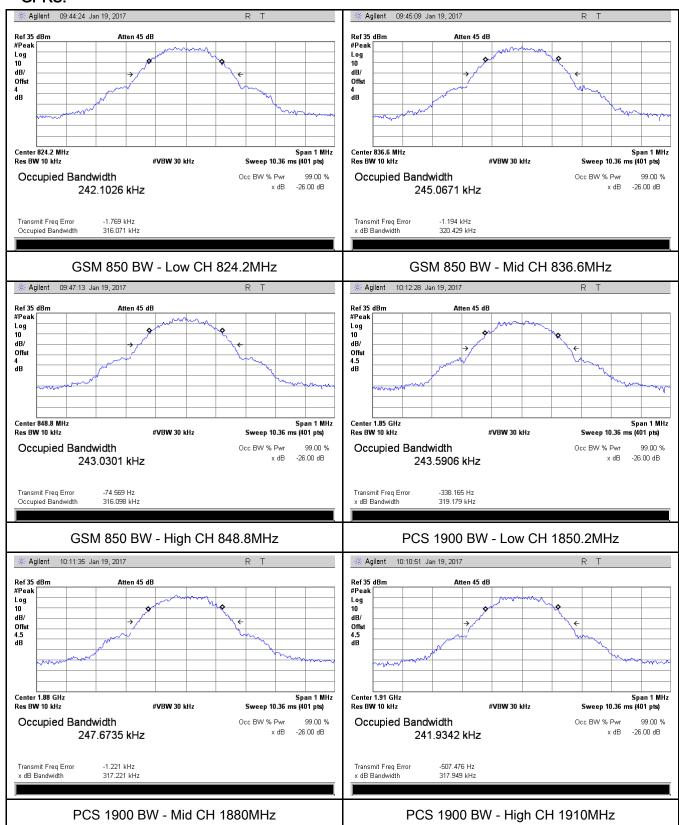
GMS Voice:





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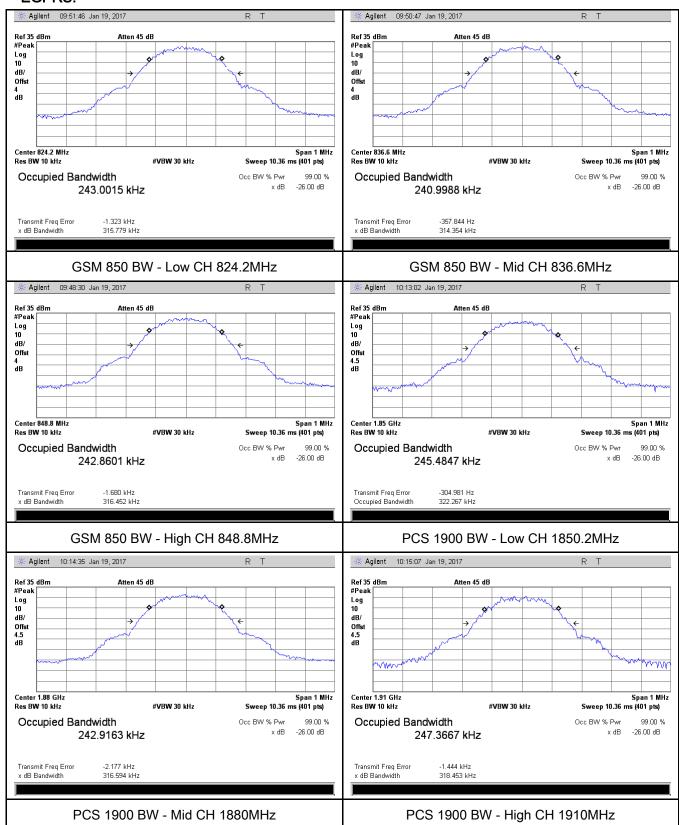
GPRS:





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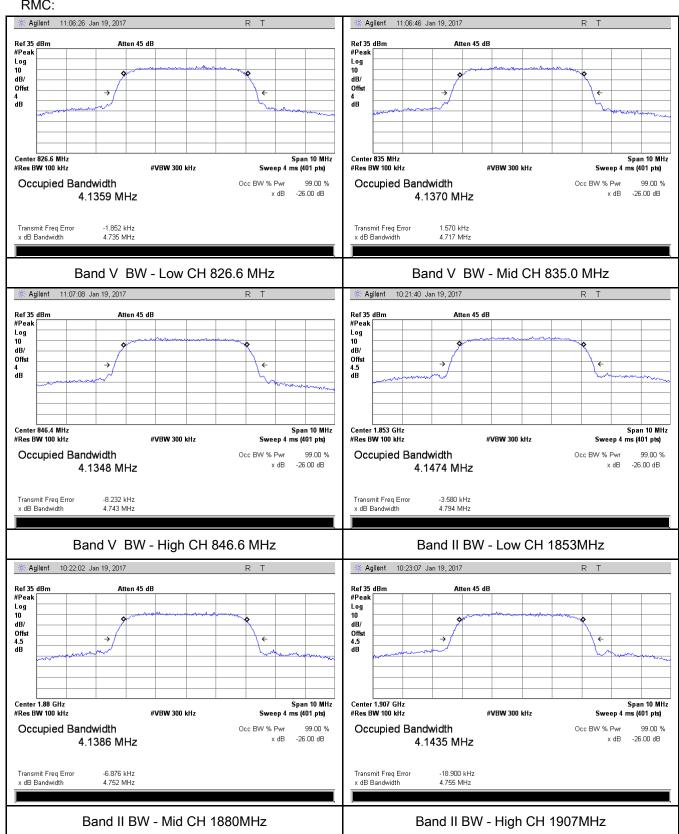
EGPRS:





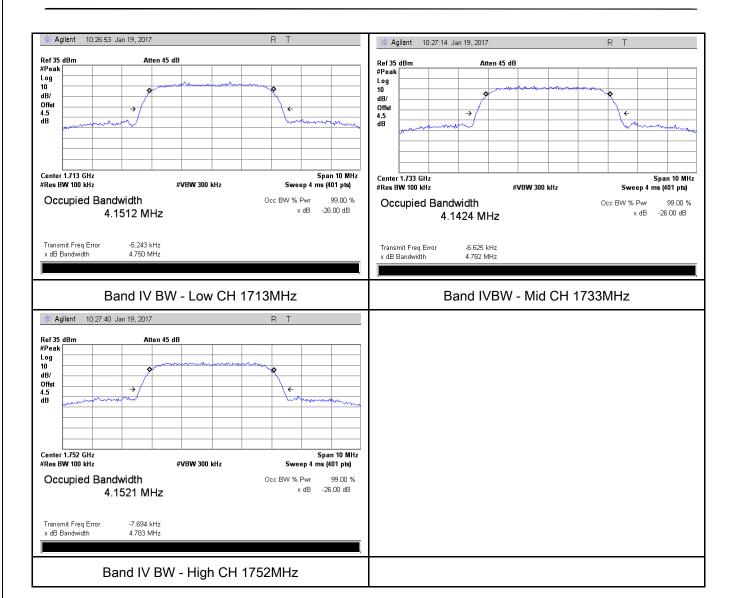
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RMC:





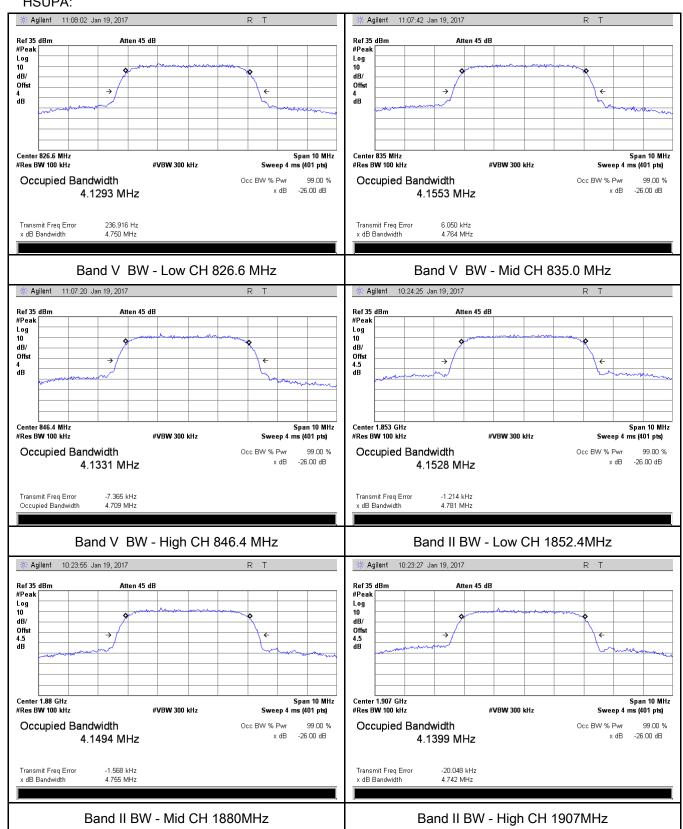
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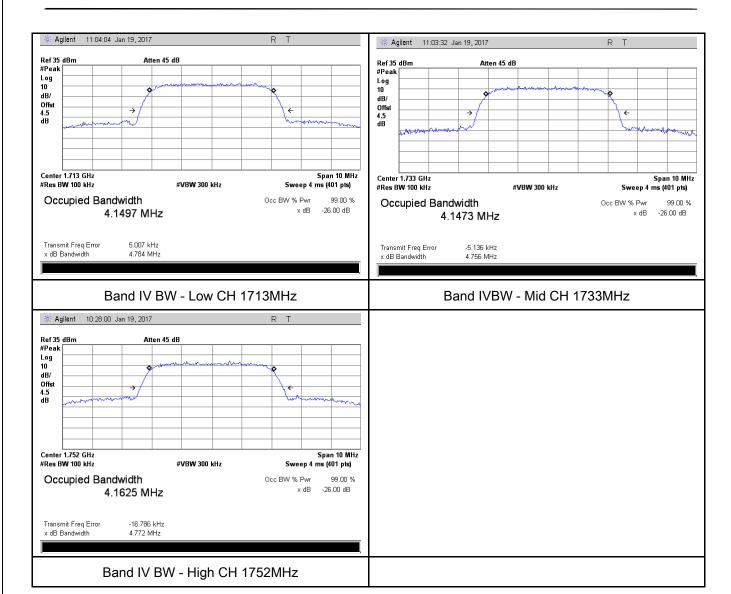
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HSUPA:



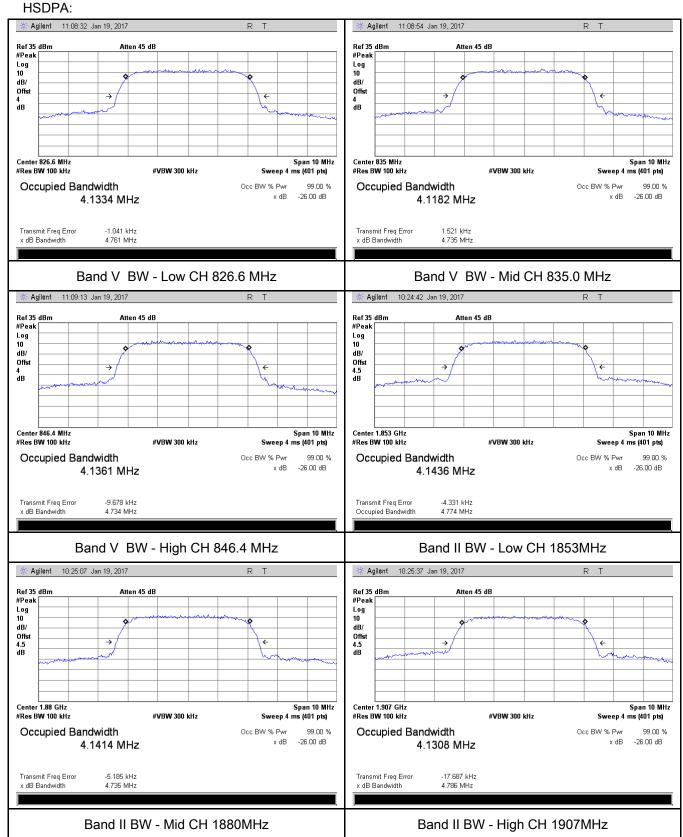


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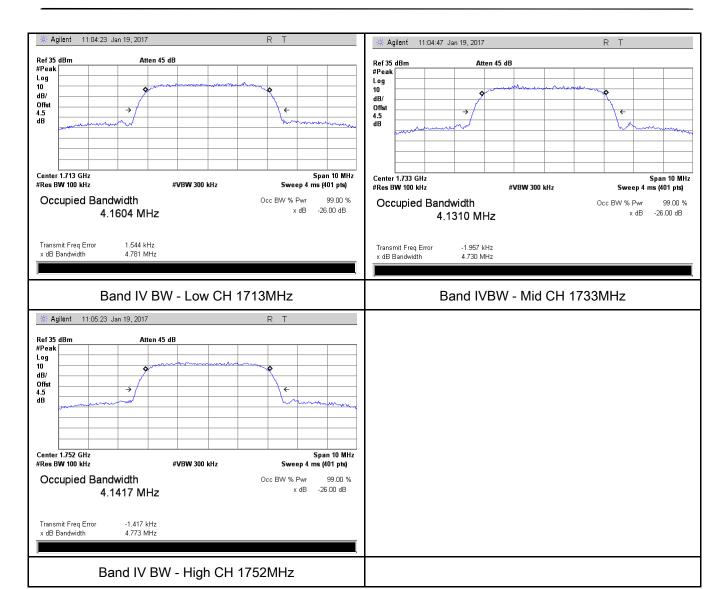


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6.5 Spurious Emissions at Antenna Terminals

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	January 20, 2017
Tested By :	Loren Luo

Requirement(s):

rtequirement(3).			,
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	B	EUT 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 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}

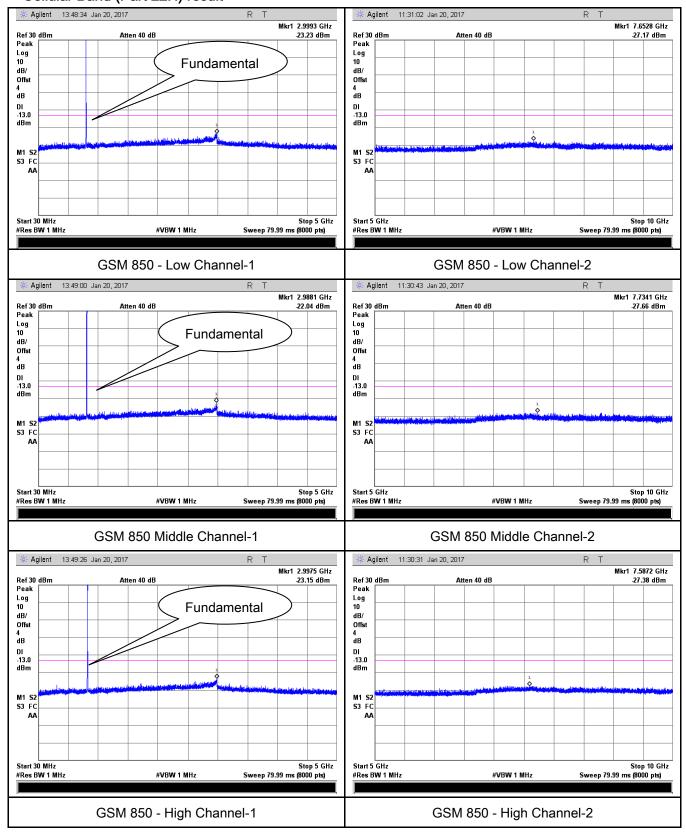


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Test Plots

GSM Voice:

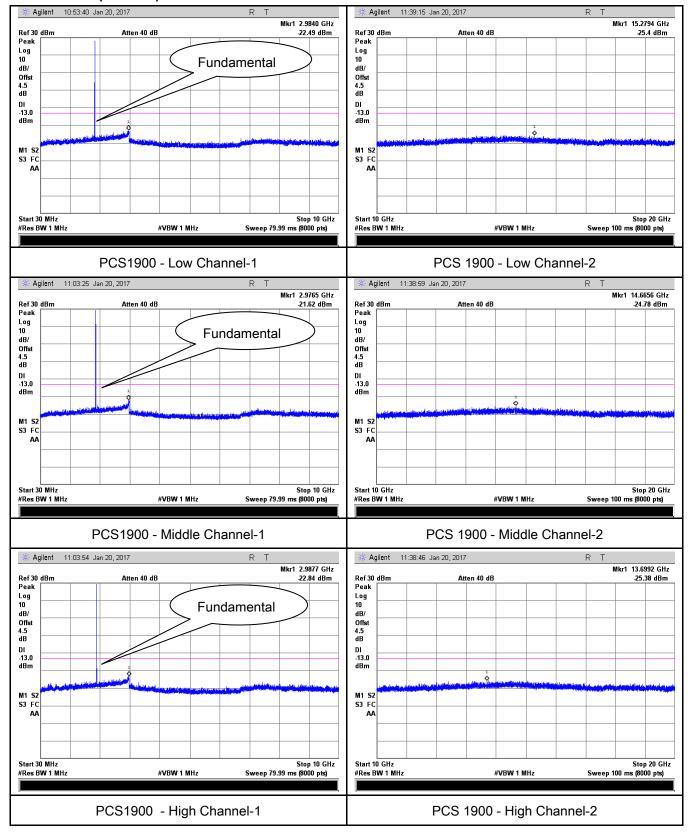
Cellular Band (Part 22H) result





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PCS Band (Part24E) result

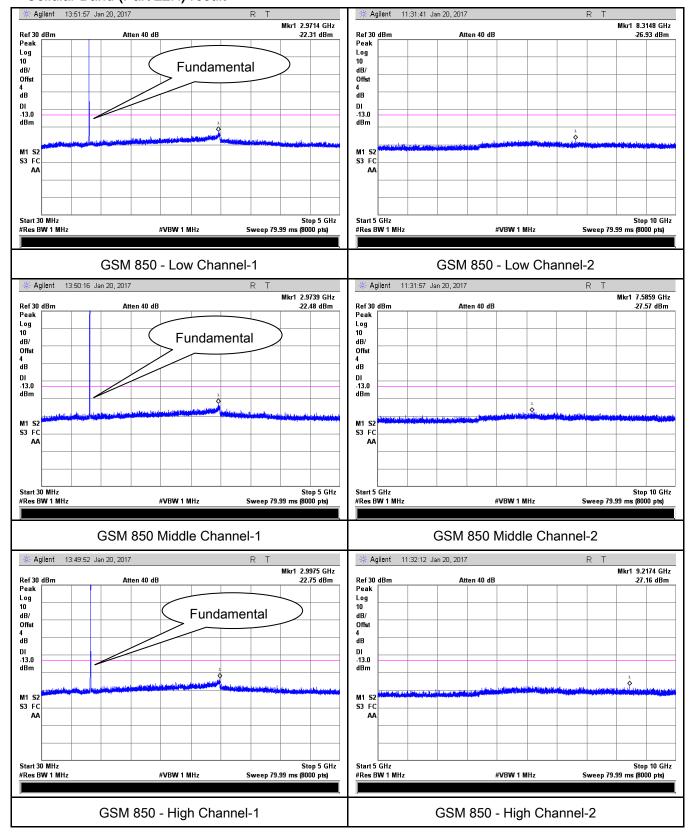




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GPRS:

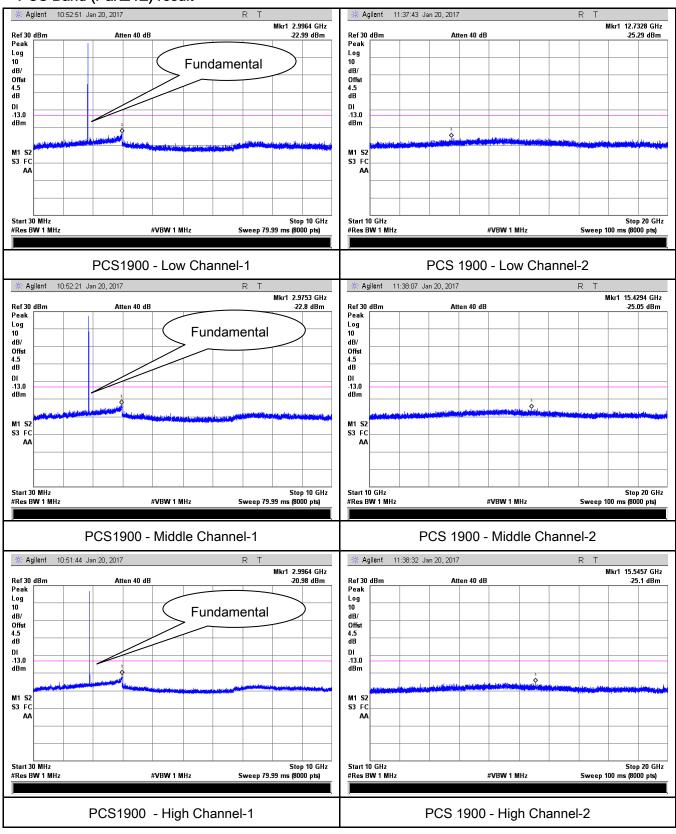
Cellular Band (Part 22H) result





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PCS Band (Part24E) result

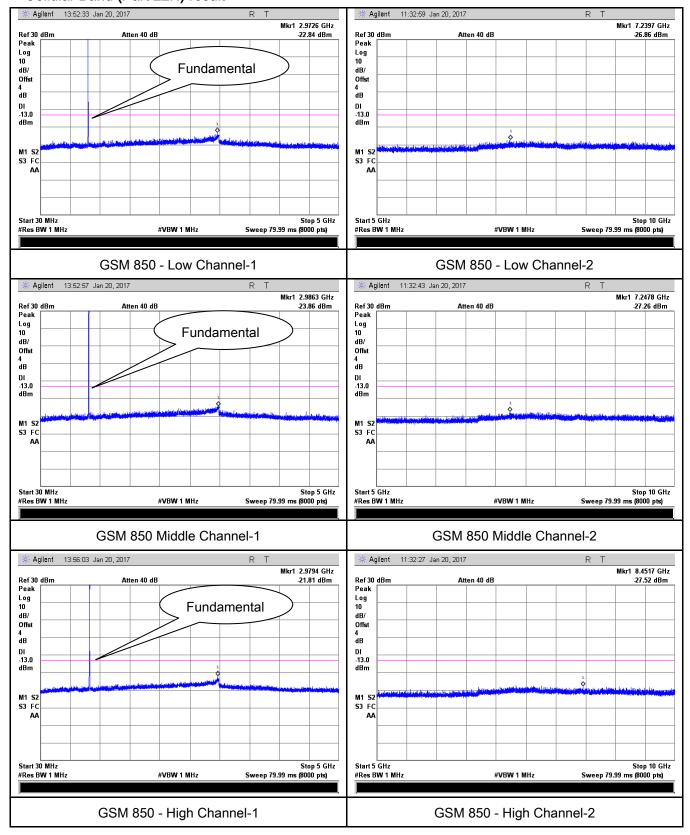




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EGPRS (MCS 5):

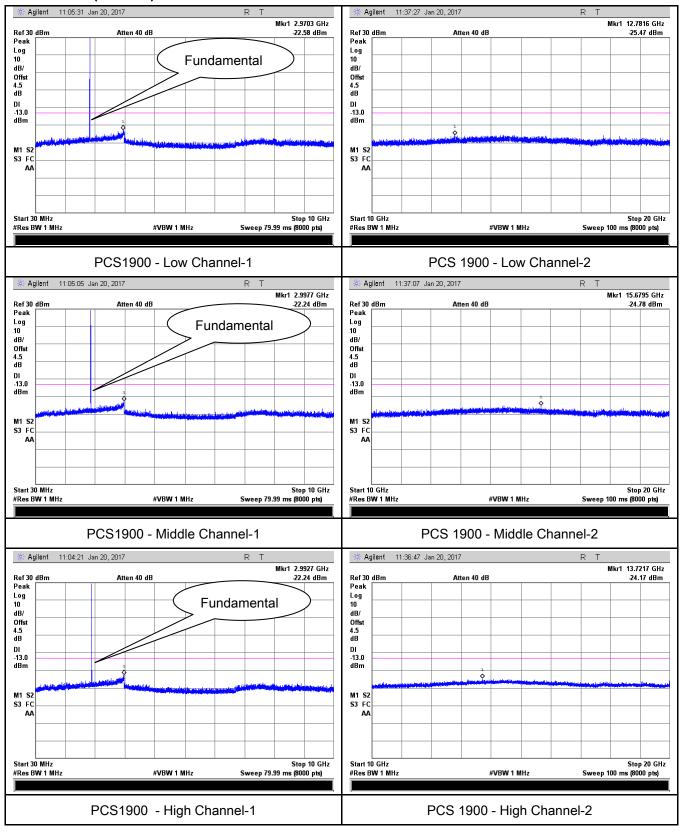
Cellular Band (Part 22H) result





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PCS Band (Part24E) result

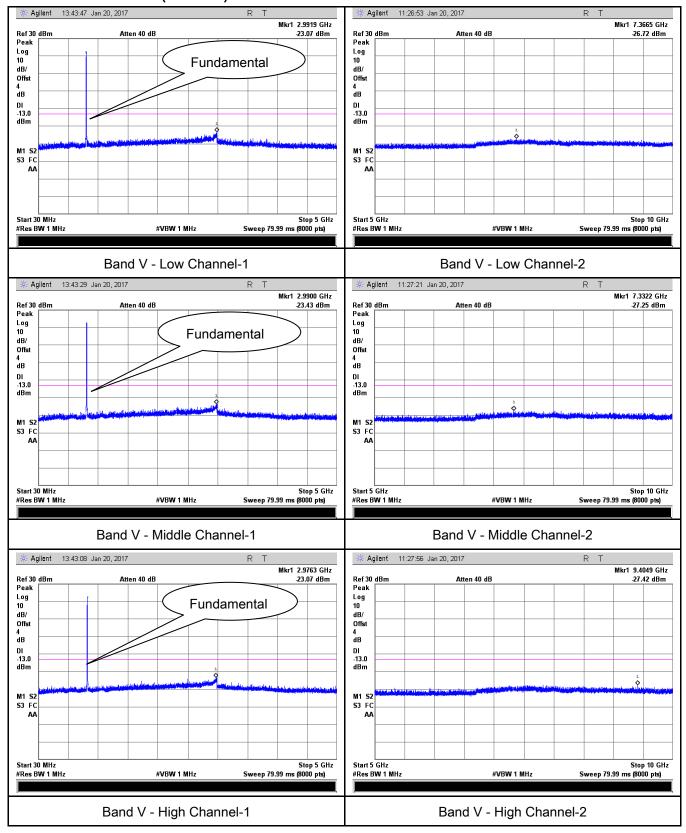




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RMC

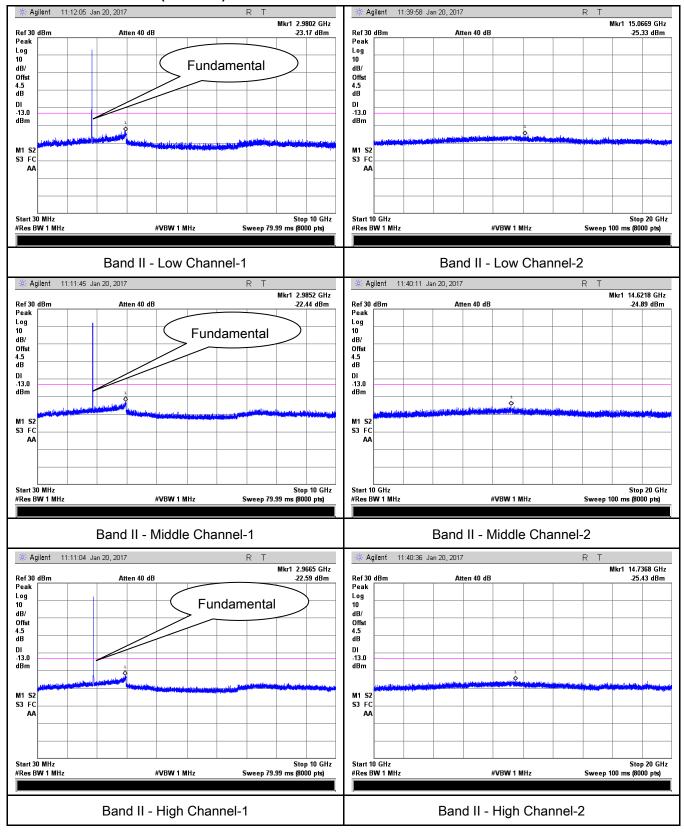
UMTS-FDD Band V (Part 22H)





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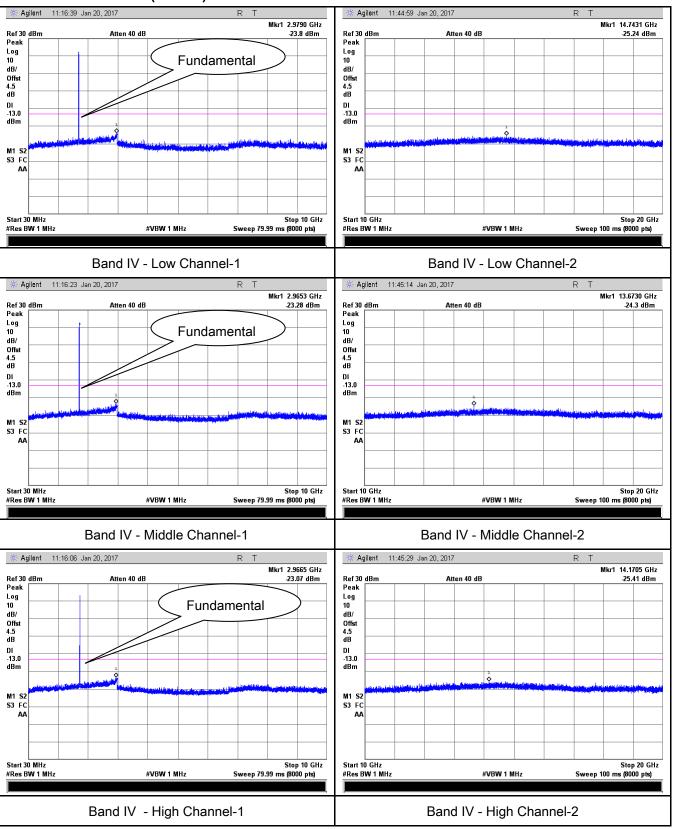
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)

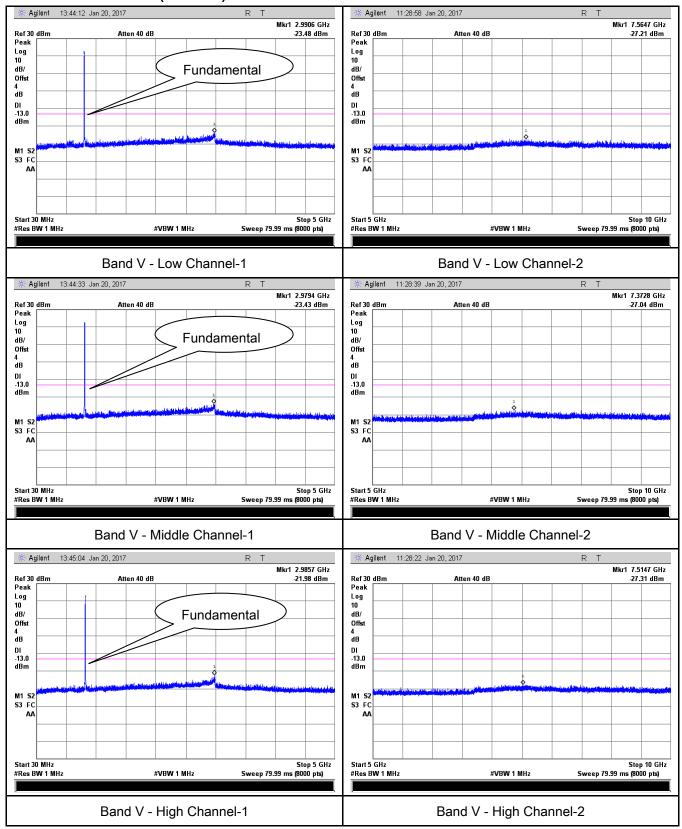




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HSUPA:

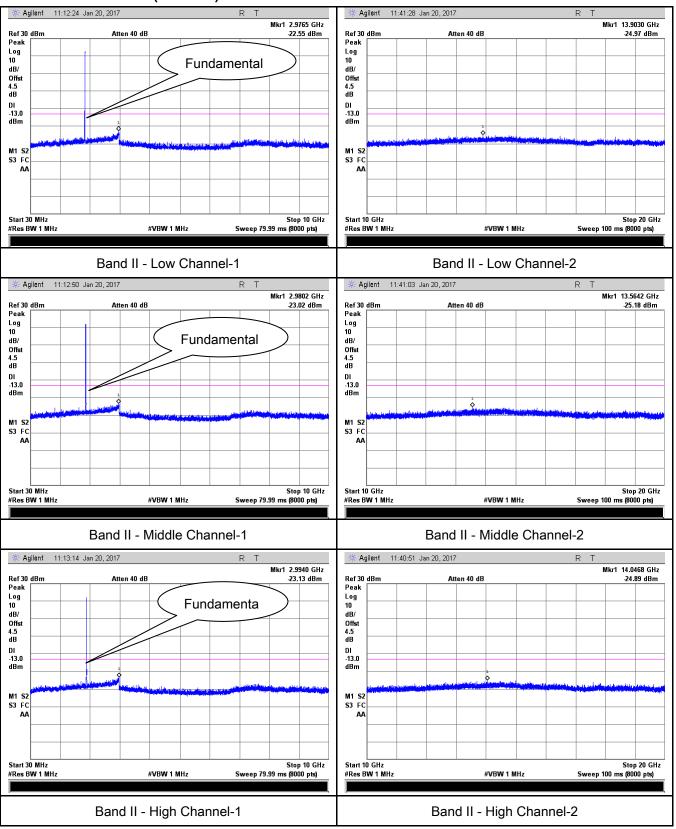
UMTS-FDD Band V (Part 22H)





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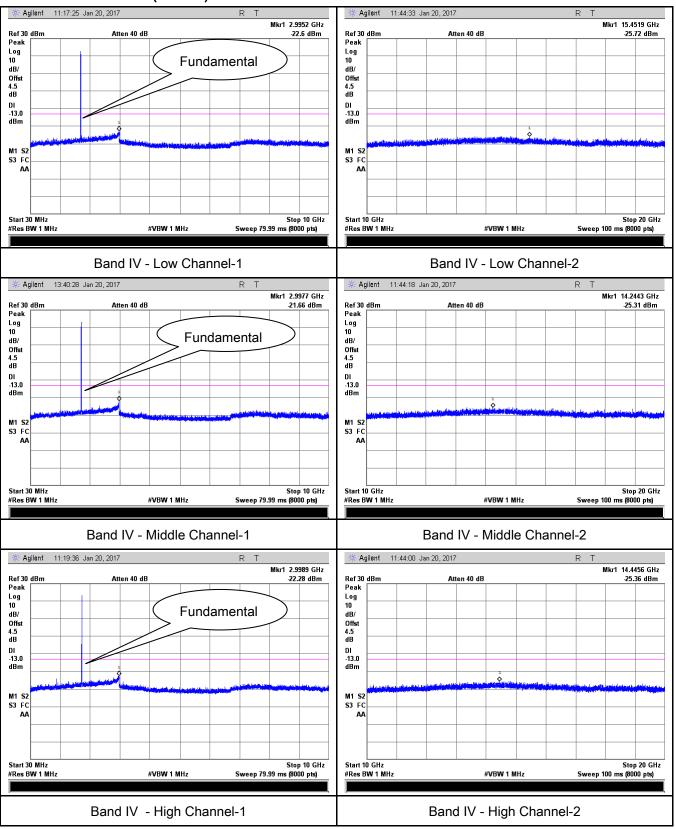
UMTS-FDD Band II (Part 24E)





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UMTS-FDD Band IV (Part 27)

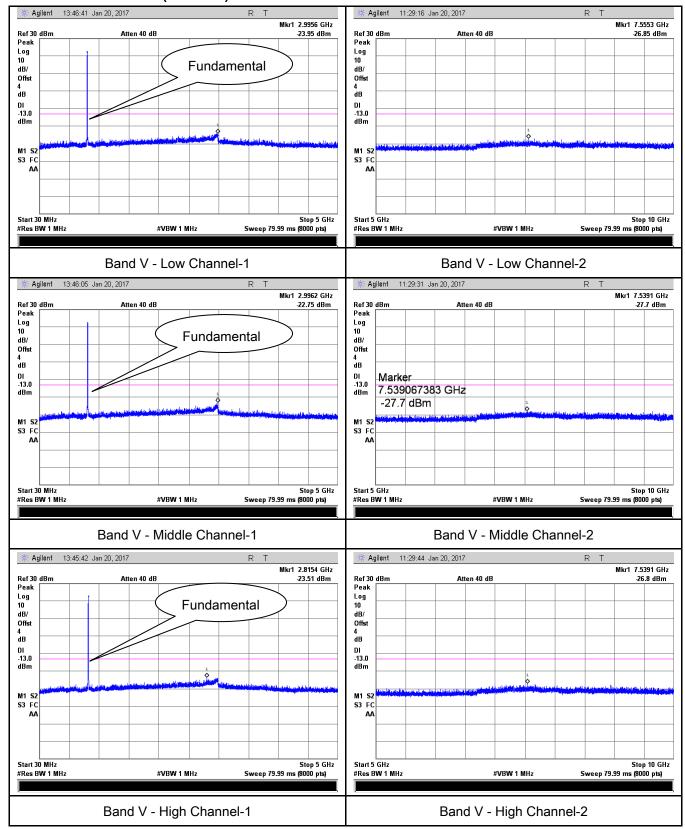




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HSDPA:

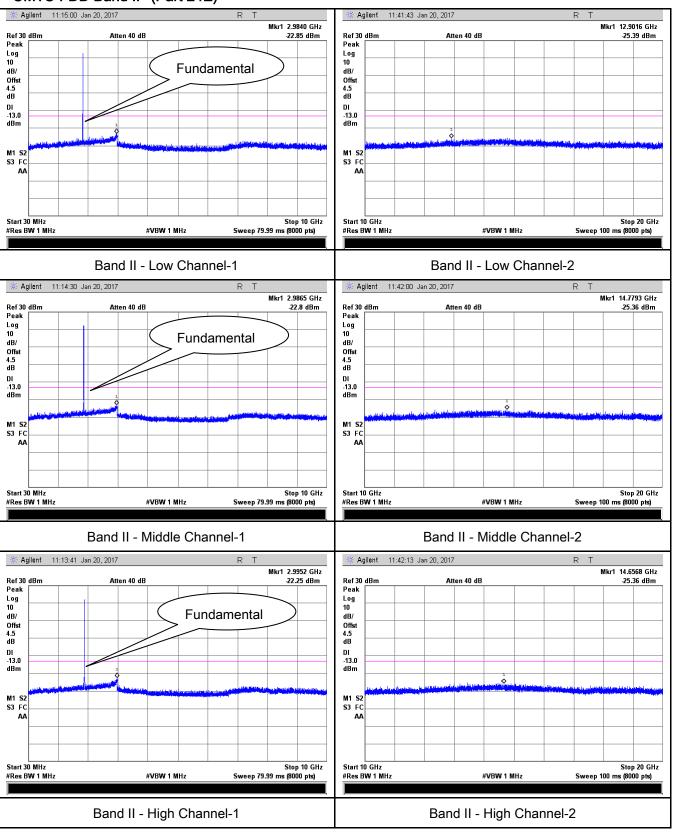
UMTS-FDD Band V (Part 22H)





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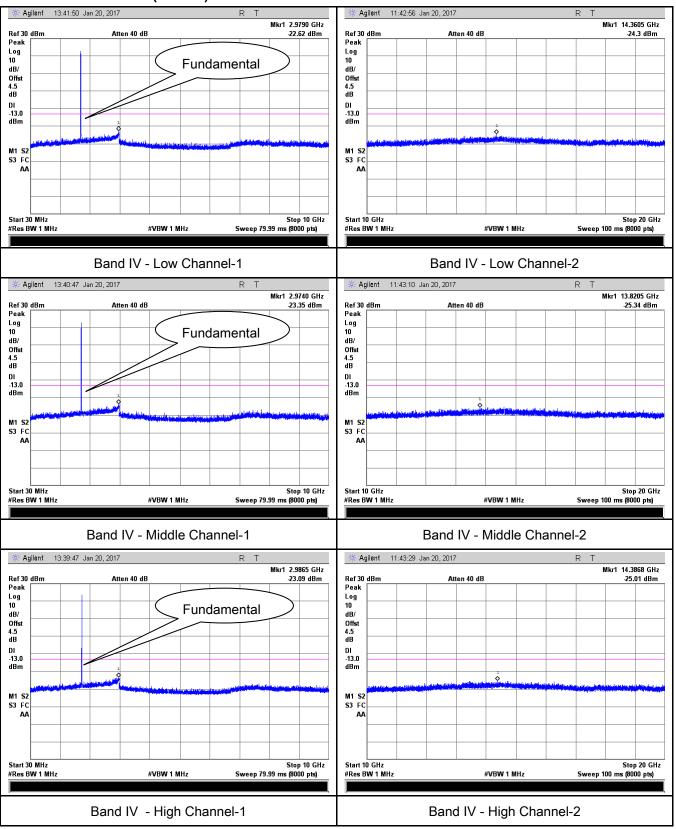
UMTS-FDD Band II (Part 24E)





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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 :	January 19/20, 2017
Tested By:	Loren Luo

Requirement(s):		•					
Spec	Item	Item Requirement Applicable					
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	V					
Test setup	Ant. Tower Support Units Turn Table 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	-44.87	V	7.95	0.78	-37.7	-13	-24.7
1648.4	-45.16	Н	7.95	0.78	-37.99	-13	-24.99
327.9	-51.37	V	6.4	0.26	-45.23	-13	-32.23
604.1	-51.25	Н	6.8	0.37	-44.82	-13	-31.82

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	-44.79	V	7.95	0.78	-37.62	-13	-24.62
1673.2	-45.03	Н	7.95	0.78	-37.86	-13	-24.86
327.7	-51.46	V	6.4	0.26	-45.32	-13	-32.32
604.5	-51.38	Н	6.8	0.37	-44.95	-13	-31.95

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	-44.82	V	7.95	0.78	-37.65	-13	-24.65
1697.6	-45.11	Н	7.95	0.78	-37.94	-13	-24.94
327.3	-51.67	V	6.4	0.26	-45.53	-13	-32.53
604.8	-51.53	Н	6.8	0.37	-45.1	-13	-32.1

- 1, The testing has been conformed to 10*848.8MHz=8,488MHz
- 2, All other emissions more than 30 dB below the limit
- 3,GSM voice, GPRS and EGPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-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	-47.66	V	10.25	2.73	-40.14	-13	-27.14
3700.4	-48.73	Η	10.25	2.73	-41.21	-13	-28.21
326.9	-52.19	V	6.4	0.26	-46.05	-13	-33.05
602.6	-52.54	Н	6.8	0.37	-46.11	-13	-33.11

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	-47.73	V	10.25	2.73	-40.21	-13	-27.21
3760	-48.85	Н	10.25	2.73	-41.33	-13	-28.33
326.5	-52.06	V	6.4	0.26	-45.92	-13	-32.92
602.8	-52.41	Н	6.8	0.37	-45.98	-13	-32.98

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	-47.69	V	10.36	2.73	-40.06	-13	-27.06
3819.6	-48.56	Η	10.36	2.73	-40.93	-13	-27.93
326.7	-52.21	V	6.4	0.26	-46.07	-13	-33.07
602.4	-51.33	Н	6.8	0.37	-44.9	-13	-31.9

- 1, The testing has been conformed to 10*1909.8MHz=19,098MHz
- 2, All other emissions more than 30 dB below the limit
- 3,GSM voice, GPRS and EGPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-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	-47.58	V	7.95	0.78	-40.41	-13	-27.41
1652.8	-46.62	Н	7.95	0.78	-39.45	-13	-26.45
327.6	-53.48	V	6.4	0.26	-47.34	-13	-34.34
606.5	-53.95	Η	6.8	0.37	-47.52	-13	-34.52

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-47.61	V	7.95	0.78	-40.44	-13	-27.44
1670	-46.57	Η	7.95	0.78	-39.4	-13	-26.4
327.2	-53.39	V	6.4	0.26	-47.25	-13	-34.25
606.3	-53.85	Н	6.8	0.37	-47.42	-13	-34.42

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-47.56	V	7.95	0.78	-40.39	-13	-27.39
1693.2	-46.55	Н	7.95	0.78	-39.38	-13	-26.38
327.7	-53.41	V	6.4	0.26	-47.27	-13	-34.27
606.5	-53.88	Н	6.8	0.37	-47.45	-13	-34.45

- 1, The testing has been conformed to 10*846.6MHz=8,466MHz
- 2, All other emissions more than 30 dB below the limit
- 3,RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-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)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-48.67	V	10.25	2.73	-41.15	-13	-28.15
3704.8	-48.73	Н	10.25	2.73	-41.21	-13	-28.21
328.7	-52.19	V	6.4	0.26	-46.05	-13	-33.05
607.5	-52.26	Н	6.8	0.37	-45.83	-13	-32.83

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	-48.71	V	10.25	2.73	-41.19	-13	-28.19
3760	-48.69	Η	10.25	2.73	-41.17	-13	-28.17
328.9	-52.24	V	6.4	0.26	-46.1	-13	-33.1
607.2	-52.37	Н	6.8	0.37	-45.94	-13	-32.94

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	-48.63	V	10.36	2.73	-41	-13	-28
3815.2	-48.59	Н	10.36	2.73	-40.96	-13	-27.96
328.3	-52.3	٧	6.4	0.26	-46.16	-13	-33.16
607.4	-52.33	Н	6.8	0.37	-45.9	-13	-32.9

- 1, The testing has been conformed to 10*1907.6MHz=19,076MHz
- 2, All other emissions more than 30 dB below the limit
- 3,RMC, HSUPA and HSDPA mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-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	-46.68	V	10.07	2.52	-39.13	-13	-26.13
3424.8	-48.97	Н	10.07	2.52	-41.42	-13	-28.42
321.1	-56.64	٧	6.4	0.26	-50.5	-13	-37.5
736.5	-51.86	Н	7.1	0.42	-45.18	-13	-32.18

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3480	-47.02	V	10.09	2.52	-39.45	-13	-26.45
3480	-46.99	Н	10.09	2.52	-39.42	-13	-26.42
321.6	-56.82	V	6.4	0.26	-50.68	-13	-37.68
736.9	-52.34	Н	7.1	0.42	-45.66	-13	-32.66

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3505.2	-46.83	V	10.09	2.52	-39.26	-13	-26.26
3505.2	-46.74	Н	10.09	2.52	-39.17	-13	-26.17
322.2	-56.81	V	6.4	0.26	-50.67	-13	-37.67
737.4	-52.27	Н	7.1	0.42	-45.59	-13	-32.59

- 1, The testing has been conformed to 10*1752.6MHz=17.526MHz
- 2, All other emissions more than 30 dB below the limit
- 3, RMC , HSUPA and HSDPA mode were investigated. The results above show only the worse cases.
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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6.7 Band Edge

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	January 20, 2017
Tested By :	Loren Luo

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					
Test setup	Ba	Base Station Spectrum Analyzer EUT					
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	ss Fail					

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



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GSM Voice:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9825	-16.99	-13
849.0150	-17.23	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-15.27	-13
1910.0200	-15.19	-13

GPRS:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9750	-16.49	-13
849.0125	-14.49	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9825	-15.40	-13
1910.0175	-17.64	-13



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EGPRS (MCS5):

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9975	-15.00	-13
849.0250	-16.70	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9975	-14.44	-13
1910.0200	-15.55	-13

RCM:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-22.93	-13
849.025	-22.26	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.725	-18.84	-13
1910.250	-19.27	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.750	-21.34	-13
1755.200	-20.13	-13



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HSUPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-22.16	-13
849.025	-22.33	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.700	-19.92	-13
1910.225	-20.60	-13

UMTS-FDD Band IV (Part 27)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.675	-21.64	-13
1755.325	-19.79	-13

HSDPA:

UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-22.05	-13
849.025	-22.29	-13

UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.725	-19.54	-13
1910.275	-21.76	-13



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UMTS-FDD Band IV (Part 27)

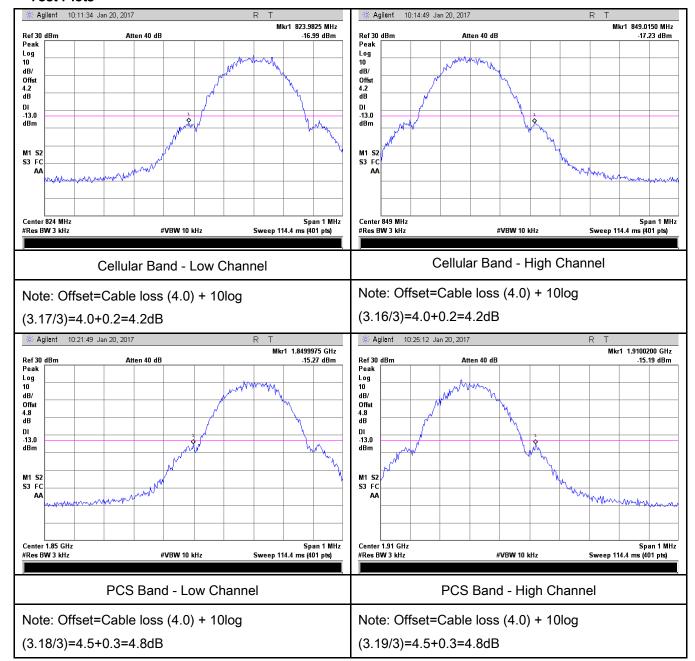
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1709.750	-19.63	-13
1755.175	-18.36	-13



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GSM Voice:

Test Plots

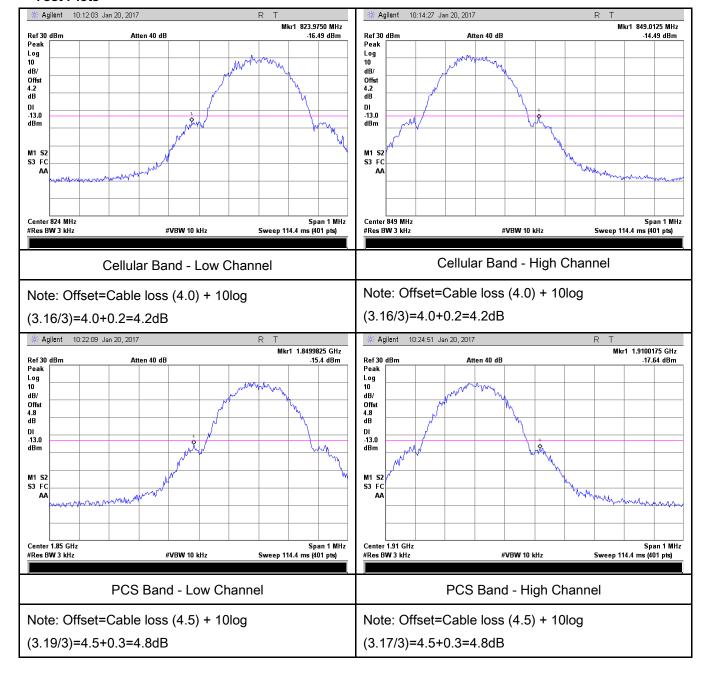




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GPRS:

Test Plots

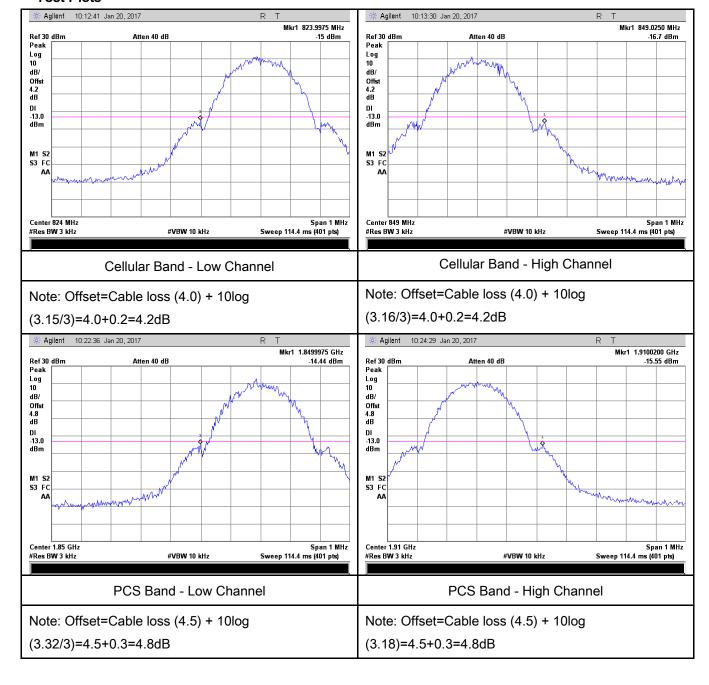




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EGPRS (MCS5):

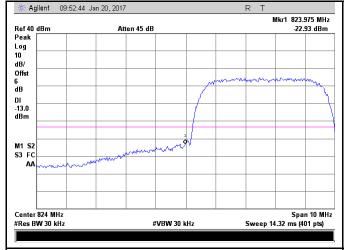
Test Plots





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RMC:



Agilent 09:57:35 Jan 20, 2017 R T Mkr1 849.025 MHz Ref 40 dBm Peak Log 10 dB/ Offst 6 dB DI -13.0 dBm M1 S2 S3 FC AA Center 849 MHz Span 10 MHz #Res BW 30 kHz #VBW 30 kHz Sweep 14.32 ms (401 pts)

UMTS-FDD Band V - Low Channel

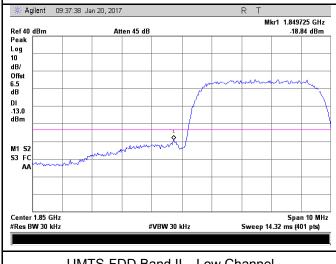
UMTS-FDD Band V - High Channel

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

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

(47.35/30)=4.0+2.0=6.0 dB

(47.43/30)=4.0+2.0=6.0dB





UMTS-FDD Band II - Low Channel

UMTS-FDD Band II - High Channel

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

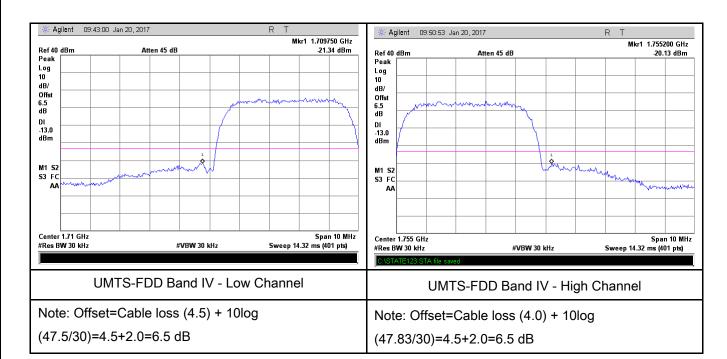
Note: Offset=Cable loss (4.5) + 10log

(47.94/30)=4.5+2.0=6.5 dB

(47.55/30)=4.5+2.0=6.5 dB



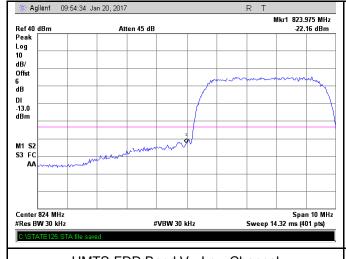
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HSUPA:





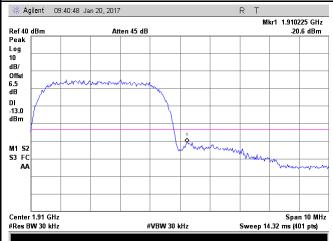
UMTS-FDD Band V - Low Channel

UMTS-FDD Band V - High Channel

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

Note: Offset=Cable loss (4.0) + 10log (47.09/30)=4.0+2.0=6.0 dB

(47.5/30)=4.0+2.0=6.0 dB



UMTS-FDD Band II - Low Channel

UMTS-FDD Band II - High Channel

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

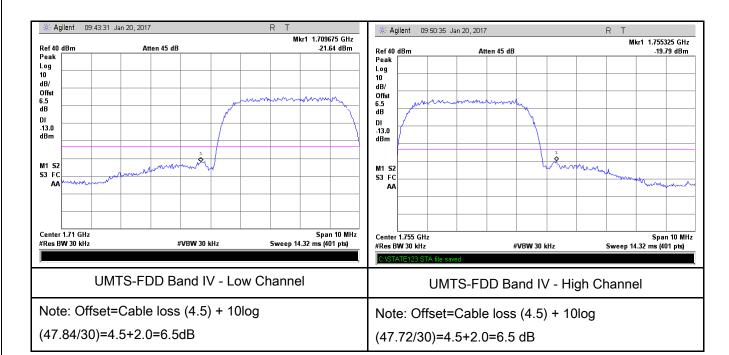
Note: Offset=Cable loss (4.5) + 10log

(47.81/30)=4.5+2.0=6.5 dB

(47.42/30)=4.5+2.0=6.5 dB



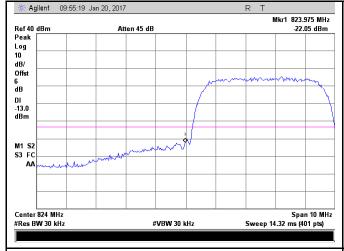
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HSDPA:



UMTS-FDD Band V - Low Channel

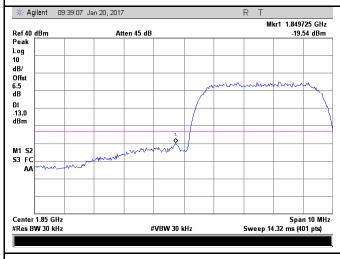
UMTS-FDD Band V - High Channel

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

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

(47.61/30)=4.0+2.0=6.0dB

(47.34/30)=4.0+2.0=6.0 dB





UMTS-FDD Band II - Low Channel

UMTS-FDD Band II - High Channel

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

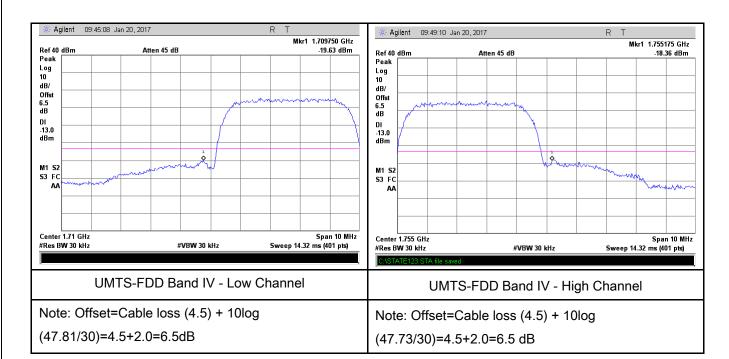
Note: Offset=Cable loss (4.5) + 10log

(47.74/30)=4.5+2.0=6.5dB

(47.86/30)=4.5+2.0=6.5dB



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6.8 Frequency Stability

Temperature	23 °C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	January 18, 2017
Tested By :	Loren Luo

Requirement(s):

Requirement(s)		Б . ,				A 1: 1.1
Spec	Item	Requirement				Applicable
		According to §22.3 the Public Mobile S tolerances given in Frequency Toleran Services Frequency	Services mus Table below	et be maintained w	rithin the	
\$2.1055		Range	fixed	watts	watts	
§2.1055,		(MHz)	(ppm)	(ppm)	(ppm)	
§22.355 &		25 to 50	20.0	20.0	50.0	_
	§24.235 a) § 27.5(h);	50 to 450	5.0	5.0	50.0	
§ 27.5(h);		45 to 512	2.5	5.0	.0	
§ 27.54	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	ency stability sha	Il be sufficient to	
		ensure that the fundamental emissions stay within the authorized				
		frequency block.				
Test setup	Test setup Base Station 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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GSM Voice:

Cellular Band (Part 22H) result

	Middle Channel, f₀ = 836.6 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		19	0.0227	2.5		
0		15	0.0179	2.5		
10	3.7	12	0.0143	2.5		
20		17	0.0203	2.5		
30		13	0.0155	2.5		
40		15	0.0179	2.5		
50		21	0.0251	2.5		
55		20	0.0239	2.5		
25	4.2	18	0.0215	2.5		
	3.5	19	0.0227	2.5		

PCS Band (Part 24E) result

	Middle Channel, f₀ = 1880 MHz						
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
-10		13	0.0069	2.5			
0		14	0.0074	2.5			
10		16	0.0085	2.5			
20	3.7	15	0.0080	2.5			
30		16	0.0085	2.5			
40		14	0.0074	2.5			
50		14	0.0074	2.5			
55		15	0.0080	2.5			
25	4.2	16	0.0085	2.5			
	3.5	20	0.0106	2.5			



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RMC:

UMTS-FDD Band V (Part 22H)

Middle Channel, f _o = 835 MHz						
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		11	0.0132	2.5		
0		10	0.0120	2.5		
10	3.7	12	0.0144	2.5		
20		13	0.0156	2.5		
30		15	0.0180	2.5		
40		10	0.0120	2.5		
50		19	0.0228	2.5		
55		14	0.0168	2.5		
25	4.2	16	0.0192	2.5		
25	3.5	15	0.0180	2.5		

UMTS-FDD Band II (Part 24E)

	OWTO-1 DD Baild ii (i ait 2-t.)					
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		16	0.0085	2.5		
10	0.7	17	0.0090	2.5		
20		9	0.0048	2.5		
30	3.7	10	0.0053	2.5		
40		12	0.0064	2.5		
50		11	0.0059	2.5		
55		12	0.0064	2.5		
25	4.2	14	0.0074	2.5		
20	3.5	16	0.0085	2.5		



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UMTS-FDD Band IV (Part 27)

Middle Channel, f₀ = 1880 MHz						
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		16	0.0192	2.5		
0		15	0.0180	2.5		
10	3.7	13	0.0156	2.5		
20		16	0.0192	2.5		
30		16	0.0192	2.5		
40		11	0.0132	2.5		
50		13	0.0156	2.5		
55		11	0.0132	2.5		
25	4.2	8	0.0096	2.5		
25	3.5	14	0.0168	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	09/15/2016	09/14/2017	<u> </u>
Power Splitter	1#	1#	08/31/2016	08/30/2017	~
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	•
Temperature/Humidity Chamber	UHL-270	001	10/08/2016	10/07/2017	>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	•
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/16/2016	09/15/2017	>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<u><</u>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<u>\</u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	\
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/20/2016	09/19/2017	\
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/23/2016	09/22/2017	<u>\</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<u>\</u>
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/16/2016	09/15/2017	<u>\</u>
Power Amplifier	SMC150D	R1553-0313	03/09/2016	03/08/2017	~
Power Amplifier	S41-25D	R1553-0314	05/27/2016	05/26/2017	~
Tunable Notch Filter	3NF-800/1000- S	AA4	08/31/2016	08/30/2017	>



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Tunable Notch Filter	3NF- 1000/2000-S	AM 4	08/31/2016	08/30/2017	~
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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



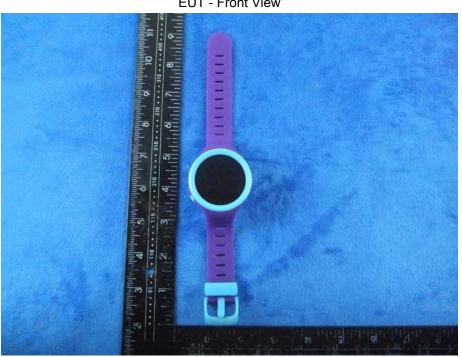
Adapter - Front View





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EUT - Front View



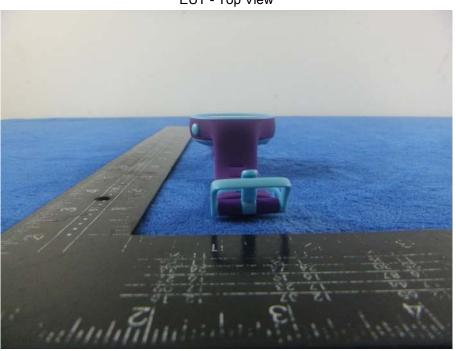
EUT - Rear View



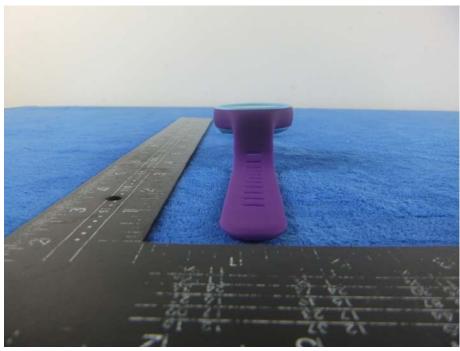


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EUT - Top View



EUT - Bottom View





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EUT - Left View



EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 2



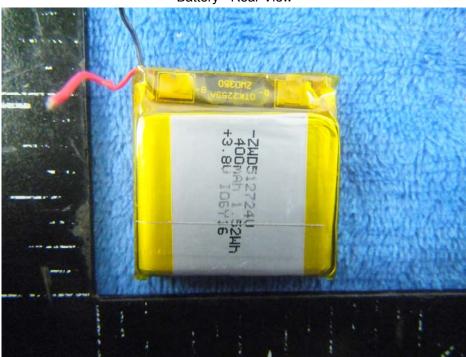


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Battery - Front View



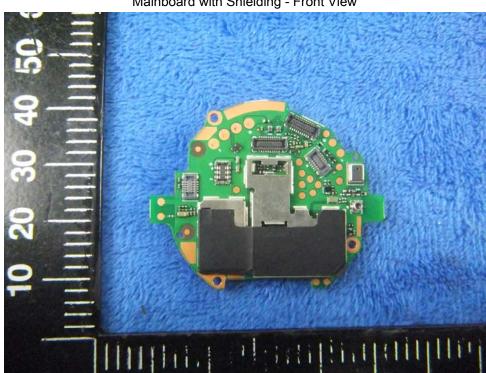
Battery - Rear View



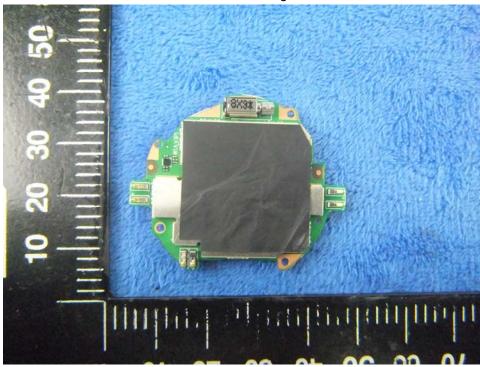


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Mainboard with Shielding - Front View



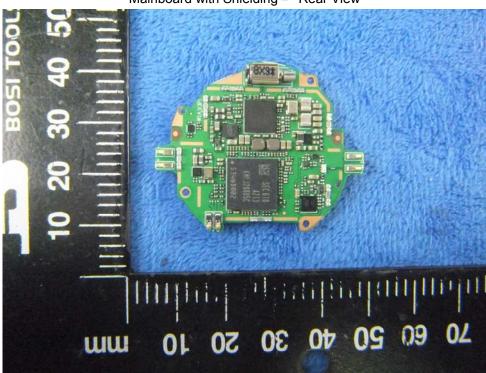
Mainboard without Shielding - Front View





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Mainboard with Shielding - Rear View



Mainboard without Shielding - Rear View





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LCD - Front View



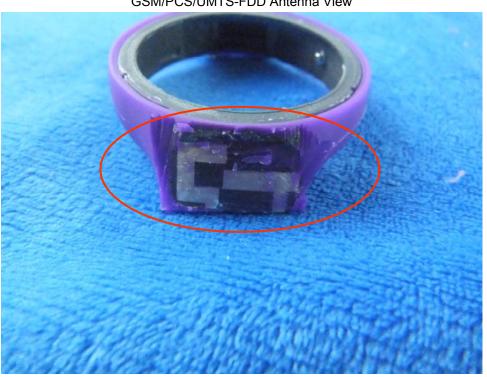
LCD - Rear View





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GSM/PCS/UMTS-FDD Antenna View



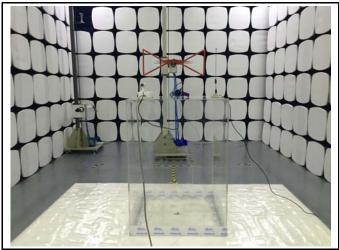
WIFI/BT/BLE/GPS - Antenna View



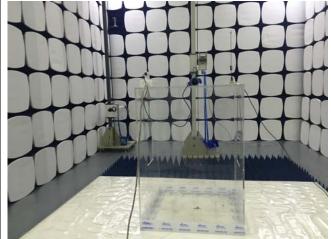


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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

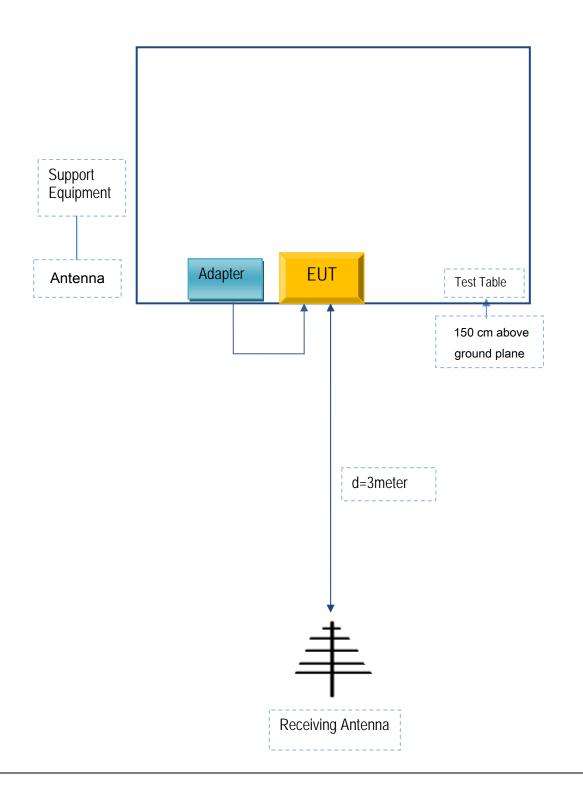


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Posh Mobile Limited	Adapter	ASUC37a-050100	F0521DH2

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	K0526DL2



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Annex C.ii. EUT OPERATING CONKITIONS

N/A



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

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

N/A