FCC RF Test Report

APPLICANT : INFINIX MOBILITY LIMITED

EQUIPMENT: Mobile Phone

BRAND NAME : Infinix MODEL NAME : X622

FCC ID : 2AIZN-X622

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 11, 2018 and completely tested on Jul. 08, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.



Approved by: Eric Shih / Manager

Sporton International (Shenzhen) Inc.

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Sporton International (Shenzhen) Inc.

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Report Issued Date : Aug. 03, 2018
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 2.0

Report No.: FG861105A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG861105A	Rev. 01	Initial issue of report	Aug. 03, 2018

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	\$2.1051 \$22.917(a) \$24.238(a) \$27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
	§2.1055 §22.355	Frequency Stability	< 2.5 ppm for Part 22H		
3.9	3.9 §2.1055 for Temperature & Voltage §27.54		Within Authorized Band	PASS	-
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 44.28 dB at 6930.400 MHz

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1 General Description

1.1 Applicant

INFINIX MOBILITY LIMITED

RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG

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1.2 Manufacturer

SHENZHEN TECNO TECHNOLOGY CO.,LTD.

1/-4/TH FLOOR, 7TH FLOOR, 3RD BUILDING, PACIFIC INDUSTRIAL PARK, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN, GUANGDONG, CHINA

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Phone			
Brand Name	Infinix			
Model Name	X622			
FCC ID	2AIZN-X622			
	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/			
FUT cumparts Badias application	HSPA+(16QAM uplink is not supported)/LTE			
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/			
	Bluetooth BR/EDR/LE			
IMEI Code	Conducted: 357423090030688/357423090030696			
IIWEI Code	Radiation: 357423090030548/357423090030555			
HW Version	2.0			
SW Version	X622-QL1818BCDE-O-180528V25			
EUT Stage	Identical Prototype			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

Standards	Standards-related Product Specification				
	GSM/GPF	RS/EDGE:			
	850:	824.2 MHz ~ 848.8 MHz			
	1900:	1850.2 MHz ~ 1909.8MHz			
Tx Frequency	WCDMA:				
	Band V:	826.4 MHz ~ 846.6 MHz			
	Band II:	1852.4 MHz ~ 1907.6 MHz			
	Band IV:	1712.4 MHz ~ 1752.6 MHz			
	GSM/GPR	RS/EDGE:			
	850:	869.2 MHz ~ 893.8 MHz			
	1900:	1930.2 MHz ~ 1989.8 MHz			
Rx Frequency	WCDMA:				
	Band V:	871.4 MHz ~ 891.6 MHz			
	Band II:	1932.4 MHz ~ 1987.6 MHz			
	Band IV:	2112.4 MHz ~ 2152.6 MHz			
	GSM/GPF	RS/EDGE:			
	850:	31.09 dBm			
	1900:	28.03 dBm			
Maximum Output Power to Antenna	WCDMA:				
		21.96 dBm			
	Band II:	21.26 dBm			
	Band IV:	21.35 dBm			
Antenna Type	Loop Anten	ina			
	Cellular Band: -7.50 dBi				
Antenna Gain	PCS Band:				
	AWS Band: -5.60 dBi				
	GSM: GMS				
	GPRS: GMSK EDGE: GMSK / 8PSK				
Type of Modulation	WCDMA: BPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink)				
	HSUPA: QPSK (Uplink)				
	HSPA+: 16QAM (16QAM uplink is not supported)				
	DC-HSDPA	A: 64QAM			

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GSM	GMSK	0.1393	0.0191 ppm	242KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.0369	0.0070 ppm	238KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.0170	0.0291 ppm	4M13F9W
Part 24E	GSM1900 GSM	GMSK	0.2056	0.0135 ppm	244KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.0735	0.0041 ppm	239KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.0433	0.0043 ppm	4M15F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	BPSK	0.0376	0.0167 ppm	4M12F9W

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1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.				
	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen				
Table Office I according	City Guangdong Province 518055 China				
Test Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Took Site No	Sporton Site No.	FCC Test Firm Registration No.			
Test Site No.	TH01-SZ 251365				
Test Site	Sporton International (Shenzhen) Inc.				
Test Site	Sporton International (Shenzhen) Inc. No. 3 Bldg the third floor of south, Shah	e River west, Fengzeyuan Warehouse,			
Test Site Test Site Location	,				
	No. 3 Bldg the third floor of south, Shah				
	No. 3 Bldg the third floor of south, Shah Nanshan District Shenzhen City Guangd				
	No. 3 Bldg the third floor of south, Shah Nanshan District Shenzhen City Guangd TEL: +86-755-3320-2398	ong Province 518055 China			

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV.
- 3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

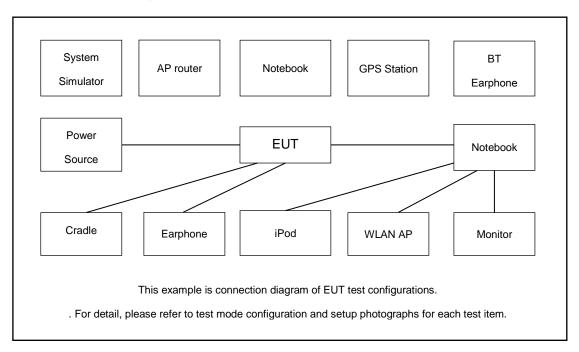
Test Modes					
Band	Radiated TCs	Conducted TCs			
CSM 950	■ GSM Link	■ GSM Link			
GSM 850	■ EDGE class 8 Link	■ EDGE class 8 Link			
GSM 1900	■ GSM Link	■ GSM Link			
GSW 1900	■ EDGE class 8 Link	■ EDGE class 8 Link			
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link			
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link			
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link			

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0dB and a 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.0 + 10 = 14.0 (dB)

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2.5 Frequency List of Low/Middle/High Channels

Frequency List						
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest		
GSM850	Channel	128	189	251		
GSIVIOOU	Frequency	824.2	836.4	848.8		
WCDMA	Channel	4132	4182	4233		
Band V	Frequency	826.4	836.4	846.6		
GSM1900	Channel	512	661	810		
GSW1900	Frequency	1850.2	1880.0	1909.8		
WCDMA	Channel	9262	9400	9538		
Band II	Frequency	1852.4	1880.0	1907.6		
WCDMA	Channel	1312	1413	1513		
Band IV	Frequency	1712.4	1732.6	1752.6		

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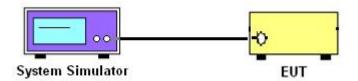
3 Conducted Test Result

3.1 Measuring Instruments

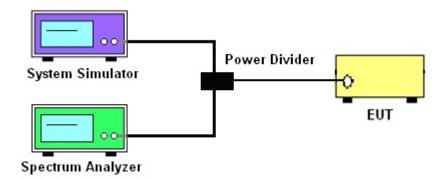
See list of measuring instruments of this test report.

3.2 Test Setup

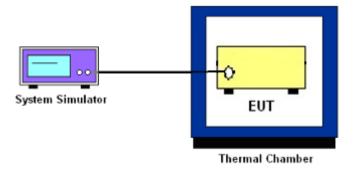
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

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3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

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3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of

the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and

one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB

below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit

bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of

the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4

2. The EUT was connected to spectrum analyzer and system simulator via a power divider.

3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.

The span range for the spectrum analyzer shall be between two and five times the anticipated

OBW.

4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated

OBW, and the VBW shall be at least 3 times the RBW.

5. Set the detection mode to peak, and the trace mode to max hold.

6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to

stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

7. Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of

the spectral display such that each marker is at or slightly below the "-X dB down amplitude"

determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed

as close as possible to this value. The OBW is the positive frequency difference between the

two markers.

9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured

bandwidth.

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3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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.

3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5
- 2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

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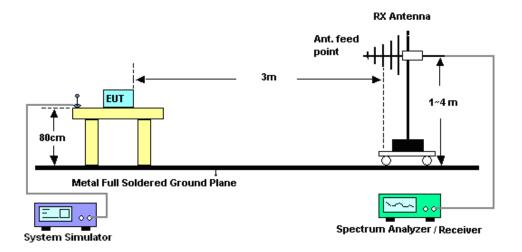
4 Radiated Test Items

4.1 Measuring Instruments

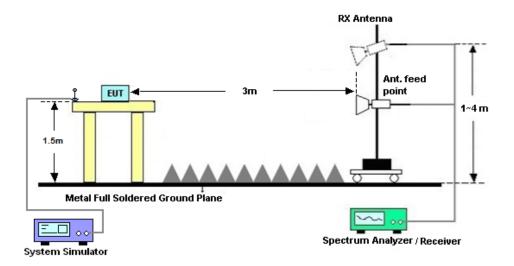
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

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4.4 Field Strength of Spurious Radiation Measurement

Description of Field Strength of Spurious Radiated Measurement

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.

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4.4.2 **Test Procedures**

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 19, 2018	Jul. 08, 2018	Apr. 18, 2019	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 20, 2017	Jul. 08, 2018	Jul. 19, 2018	Conducted (TH01-SZ)
Radio communication analyzer	Anritsu	MT8820C	6201563777	2G/3G/4G	Dec. 26, 2017	Jul. 08, 2018	Dec. 25, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Apr. 19, 2018	Jun. 18, 2018	Apr. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Oct. 19, 2017	Jun. 18, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Apr. 19, 2018	Jun. 18, 2018	Apr. 18, 2019	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jul. 28, 2017	Jun. 18, 2018	Jul. 27, 2018	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2018	Jun. 18, 2018	Mar. 29, 2019	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 19, 2018	Jun. 18, 2018	Apr. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1707137	1GHz~18GHz	Oct. 19, 2017	Jun. 18, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 18, 2017	Jun. 18, 2018	Jul. 17, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Jun. 18, 2018	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 18, 2018	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 18, 2018	NCR	Radiation (03CH01-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 19, 2018	Jun. 18, 2018	Apr.18, 2019	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Apr. 19, 2018	Jun. 18, 2018	Apr. 18, 2019	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Mar. 29, 2018	Jun. 18, 2018	Mar. 28, 2019	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2018	Jun. 18, 2018	Mar. 29, 2019	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 19, 2017	Jun. 18, 2018	Oct. 18, 2018	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2017	Jun. 18, 2018	Dec. 26, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 18, 2017	Jun. 18, 2018	Jul. 17, 2018	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Jun. 18, 2018	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 18, 2018	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 18, 2018	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

For 03CH01-SZ:

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.5 dB
Confidence of 95% (U = 2Uc(y))	

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.5 dB
Confidence of 95% (U = 2Uc(y))	3.3 dB

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	4.0 dB
Confidence of 95% (U = 2Uc(y))	4.0 QD

For 03CH03-SZ:

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.0 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.6 dB
Confidence of 95% (U = 2Uc(y))	3.0 UB

<u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3.8 dB
Confidence of 95% (U = 2Uc(y))	3.6 UB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)							
Band	GSM850				GSM1900	00	
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	31.08	<mark>31.09</mark>	31.06	<mark>28.03</mark>	27.88	27.92	
GPRS class 8	31.06	31.07	31.05	28.00	27.87	27.90	
GPRS class 10	27.90	28.01	28.12	25.70	25.74	25.85	
GPRS class 11	26.60	26.72	26.88	24.82	24.71	24.66	
GPRS class 12	25.82	25.87	26.00	23.40	23.38	23.03	
EGPRS class 8	25.32	25.00	25.15	23.18	23.56	23.43	
EGPRS class 10	22.17	21.75	21.91	21.42	21.57	21.22	
EGPRS class 11	20.91	20.78	20.85	21.08	21.11	21.07	
EGPRS class 12	20.72	20.63	20.61	20.68	20.77	20.65	

Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2K	21.92	21.95	21.88	21.24	21.04	21.12	21.30	21.33	21.28
RMC 12.2K	21.93	<mark>21.96</mark>	21.89	<mark>21.26</mark>	21.05	21.13	21.30	<mark>21.35</mark>	21.29
HSDPA Subtest-1	20.79	20.77	20.78	20.05	19.80	19.85	20.00	20.04	19.91
HSDPA Subtest-2	20.80	20.81	20.79	19.98	19.75	19.84	20.10	20.18	20.05
HSDPA Subtest-3	20.32	20.33	20.30	19.48	19.26	19.35	19.61	19.58	19.55
HSDPA Subtest-4	20.33	20.34	20.31	19.44	19.25	19.34	19.61	19.59	19.56
DC-HSDPA Subtest-1	20.53	20.71	20.62	19.96	19.82	19.81	19.65	19.72	19.63
DC-HSDPA Subtest-2	20.72	20.73	20.75	19.92	19.66	19.73	19.83	19.65	19.72
DC-HSDPA Subtest-3	20.46	20.36	20.23	19.35	19.22	19.15	19.48	19.12	19.44
DC-HSDPA Subtest-4	20.25	20.35	20.25	19.23	19.45	19.54	19.42	19.31	19.34
HSUPA Subtest-1	20.16	20.25	20.83	19.62	19.39	19.30	19.35	19.79	19.39
HSUPA Subtest-2	19.56	19.88	19.66	19.08	18.79	18.82	18.76	19.09	18.68
HSUPA Subtest-3	19.39	19.49	19.47	18.67	18.42	18.42	18.69	18.70	18.59
HSUPA Subtest-4	20.15	20.44	20.25	18.93	18.72	18.98	19.25	19.09	19.69
HSUPA Subtest-5	20.80	20.90	20.80	20.10	19.80	19.80	19.30	20.00	20.00

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ERP/EIRP

GSM850 (G _T - L _C = -7.50 dBi)					
	128	189	251		
Channel	(Low)	(Mid)	(High)		
Frequency	004.0		0.40.0		
(MHz)	824.2	836.4	848.8		
Conducted Power (dBm)	31.08	31.09	31.06		
Conducted Power (Watts)	1.2823	1.2853	1.2764		
ERP(dBm)	21.43	21.44	21.41		
ERP(Watts)	0.1390	0.1393	0.1384		

EDGE850 (G _T - L _C = -7.50 dBi)					
a	128 189		251		
Channel	(Low)	(Mid)	(High)		
Frequency	004.0	000.4			
(MHz)	824.2	836.4	848.8		
Conducted Power (dBm)	25.32	25.00	25.15		
Conducted Power (Watts)	0.3404	0.3162	0.3273		
ERP(dBm)	15.67	15.35	15.50		
ERP(Watts)	0.0369	0.0343	0.0355		

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GSM1900 (G _T - L _C = -4.90 dBi)					
	512	661	810		
Channel	(Low)	(Mid)	(High)		
Frequency	4050.0	4000	1909.8		
(MHz)	1850.2	1880			
Conducted Power (dBm)	28.03	27.88	27.92		
Conducted Power (Watts)	0.6353	0.6138	0.6194		
EIRP(dBm)	23.13	22.98	23.02		
EIRP(Watts)	0.2056	0.1986	0.2004		

EDGE1900 (G _T - L _C = -4.90 dBi)					
Channel	512	661	810		
Channel	(Low)	(Mid)	(High)		
Frequency	4050.0	4000	4000.0		
(MHz)	1850.2	1880	1909.8		
Conducted Power (dBm)	23.18	23.56	23.43		
Conducted Power (Watts)	0.2080	0.2270	0.2203		
EIRP(dBm)	18.28	18.66	18.53		
EIRP(Watts)	0.0673	0.0735	0.0713		

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WCDMA Band V (G _T - L _C = -7.50 dBi)					
Channel	4132	4182	4233		
Channel	(Low)	(Mid)	(High)		
Frequency	000.4	000.4	846.6		
(MHz)	826.4	836.4			
Conducted Power (dBm)	21.93	21.96	21.89		
Conducted Power (Watts)	0.1560	0.1570	0.1545		
ERP(dBm)	12.28	12.31	12.24		
ERP(Watts)	0.0169	0.0170	0.0167		

WCDMA Band II (G_T - L_C = -4.90 dBi)				
Channel	9262	9400	9538	
Channel	(Low)	(Mid)	(High)	
Frequency	4050.4	4000	4007.0	
(MHz)	1852.4	1880	1907.6	
Conducted Power (dBm)	21.26	21.05	21.13	
Conducted Power (Watts)	0.1337	0.1274	0.1297	
EIRP(dBm)	16.36	16.15	16.23	
EIRP(Watts)	0.0433	0.0412	0.0420	

WCDMA Band IV ($G_T - L_C = -5.60 \text{ dBi}$)				
Channel	1312	1413	1513	
Channel	(Low)	(Mid)	(High)	
Frequency	1712.4	4700.0	4750.6	
(MHz)	1712.4	1732.6	1752.6	
Conducted Power (dBm)	21.30	21.35	21.29	
Conducted Power (Watts)	0.1349	0.1365	0.1346	
EIRP(dBm)	15.70	15.75	15.69	
EIRP(Watts)	0.0372	0.0376	0.0371	

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Peak-to-Average Ratio

Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	3.22	
Middle CH	0.17	3.13	PASS
Highest CH	0.17	3.51	

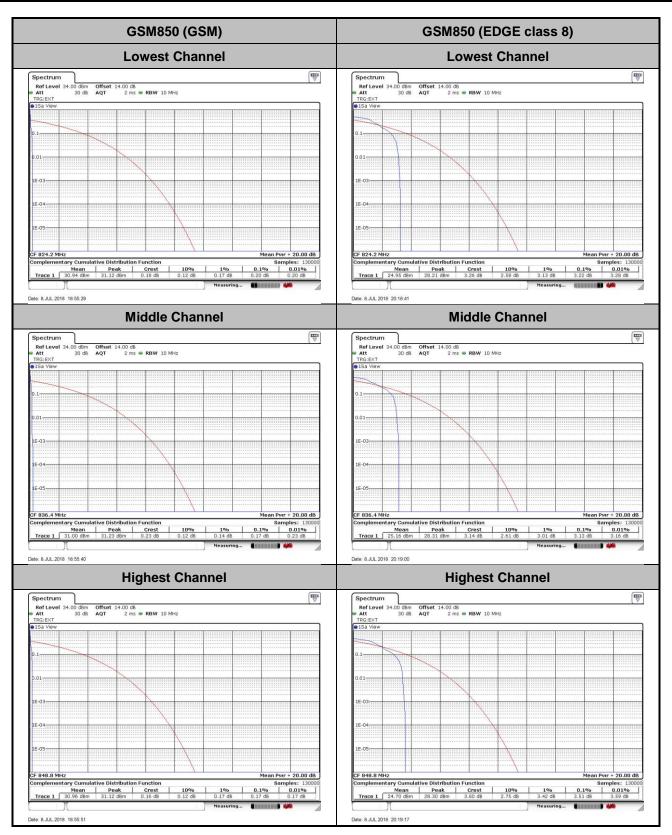
Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.26	3.28	
Middle CH	0.20	3.48	PASS
Highest CH	0.23	3.48	

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	WCDMA Band IV(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.04	3.07	3.39	
Middle CH	3.16	3.01	3.39	PASS
Highest CH	3.07	3.25	3.39	

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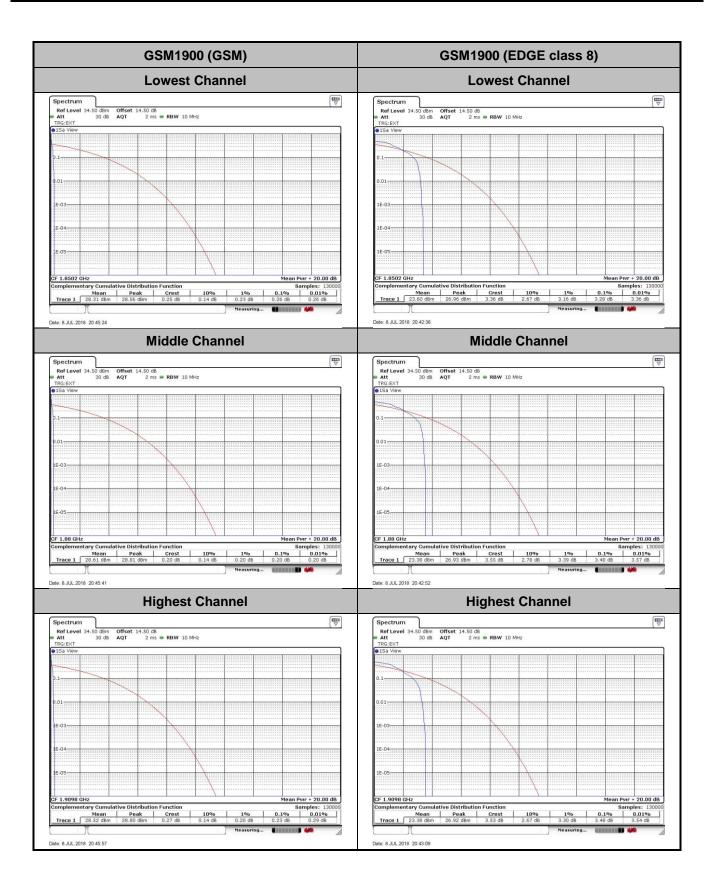
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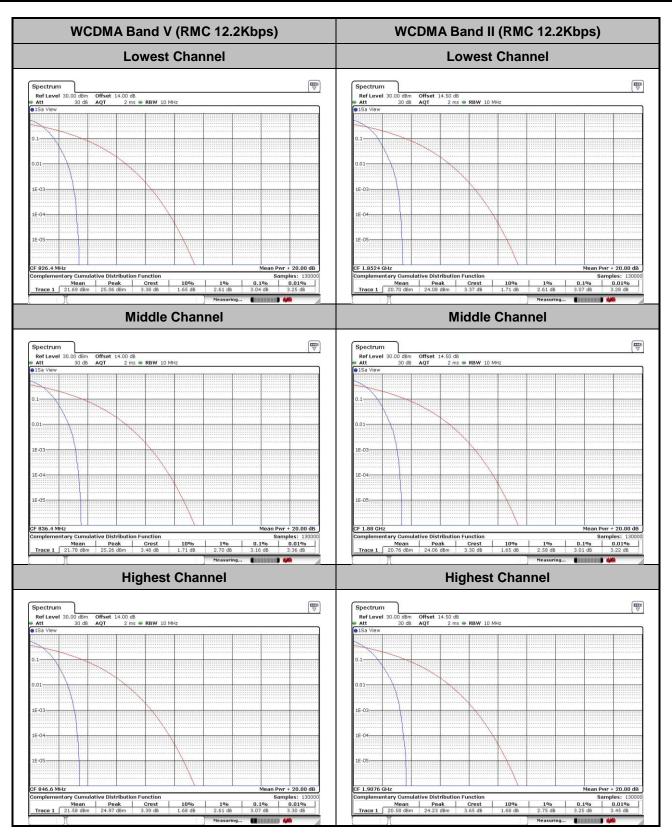
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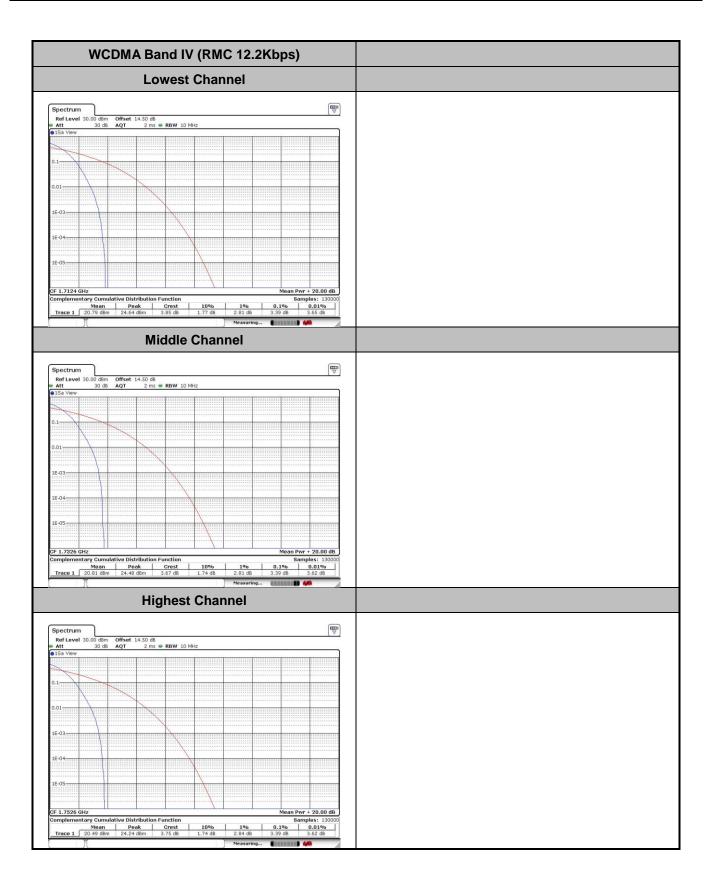
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26dB Bandwidth

Mode	GSM850(MHz)		
Mod.	GSM EDGE class 8		
Lowest CH	0.313	0.314	
Middle CH	0.315	0.311	
Highest CH	0.317	0.295	

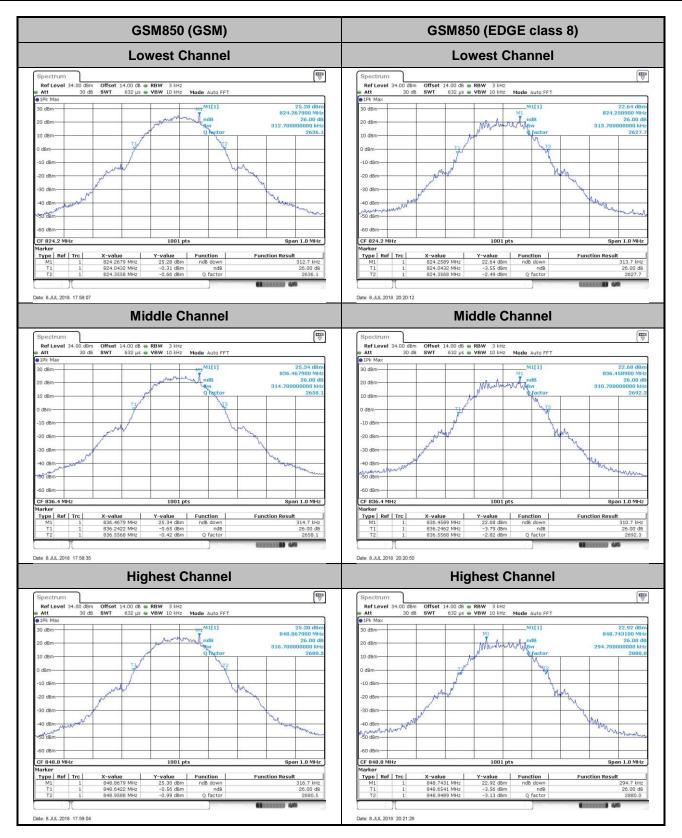
Mode	GSM1900(MHz)		
Mod.	GSM EDGE class 8		
Lowest CH	0.316	0.295	
Middle CH	0.316	0.315	
Highest CH	0.317	0.305	

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.72	4.73	4.70
Middle CH	4.72	4.74	4.70
Highest CH	4.71	4.72	4.70

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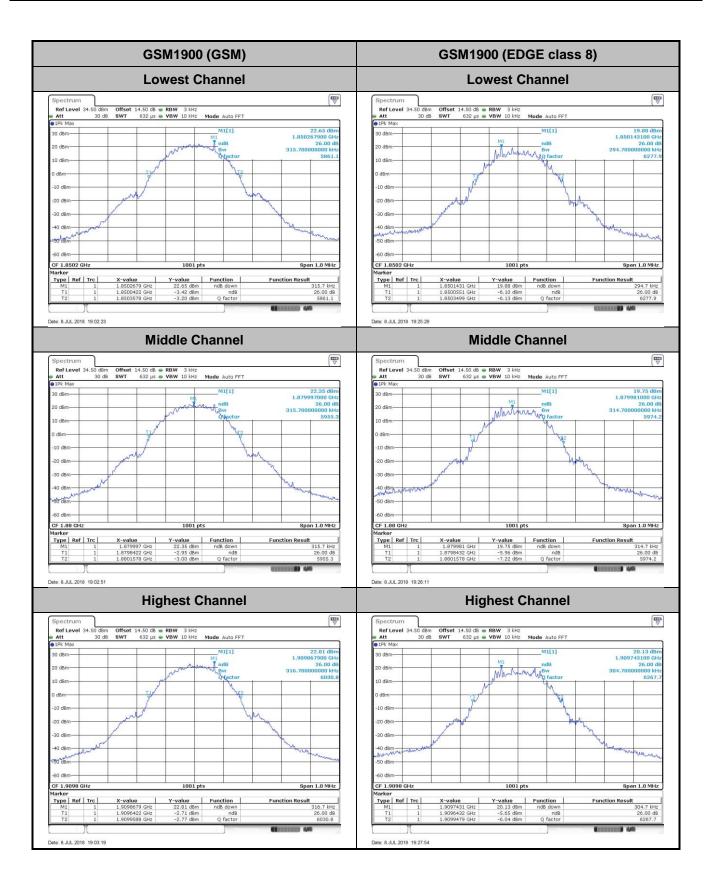
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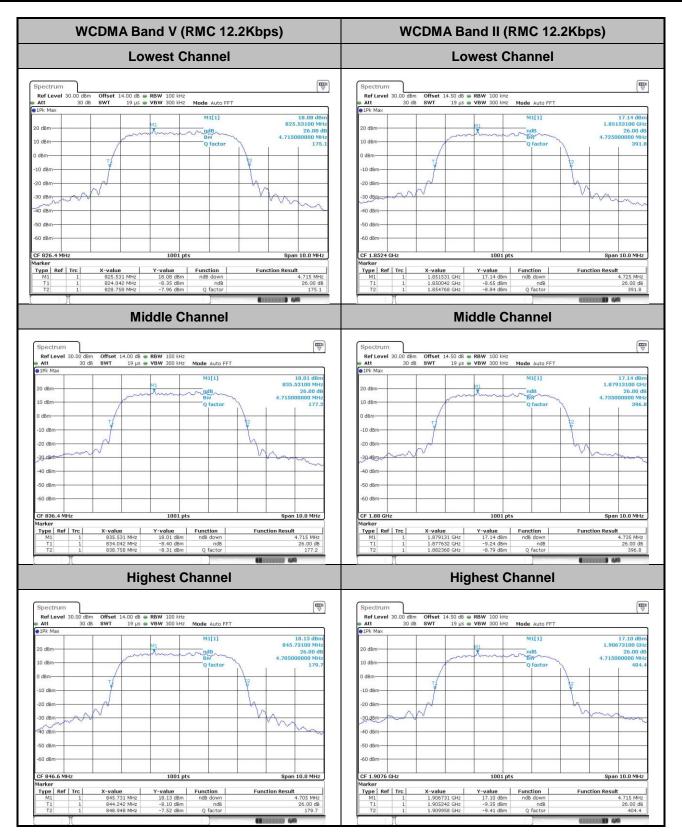
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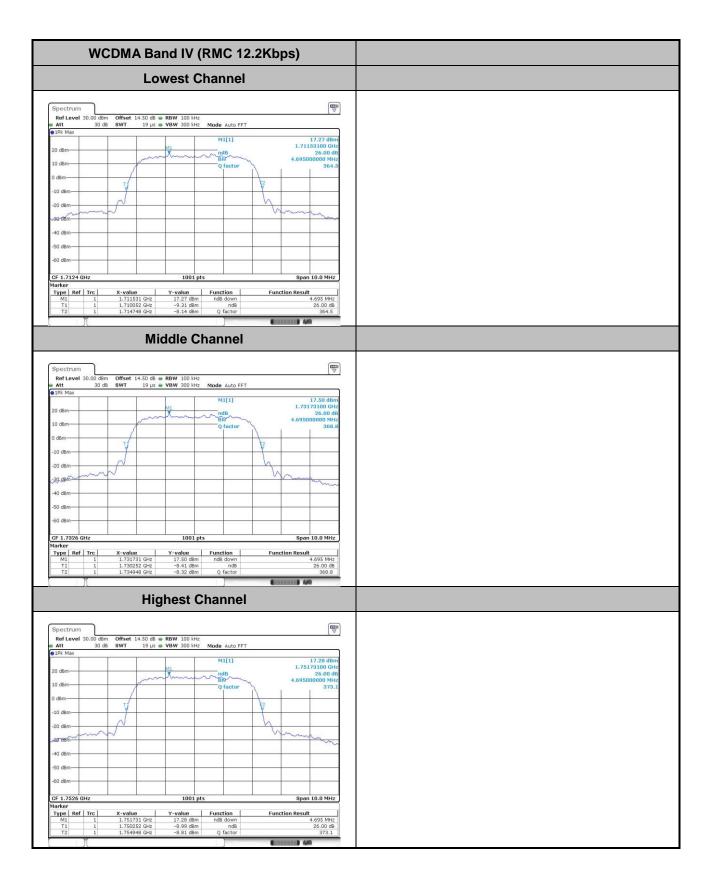
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Occupied Bandwidth

Mode	GSM850(MHz)		
Mod.	GSM EDGE class 8		
Lowest CH	0.242	0.237	
Middle CH	0.241	0.238	
Highest CH	0.241	0.237	

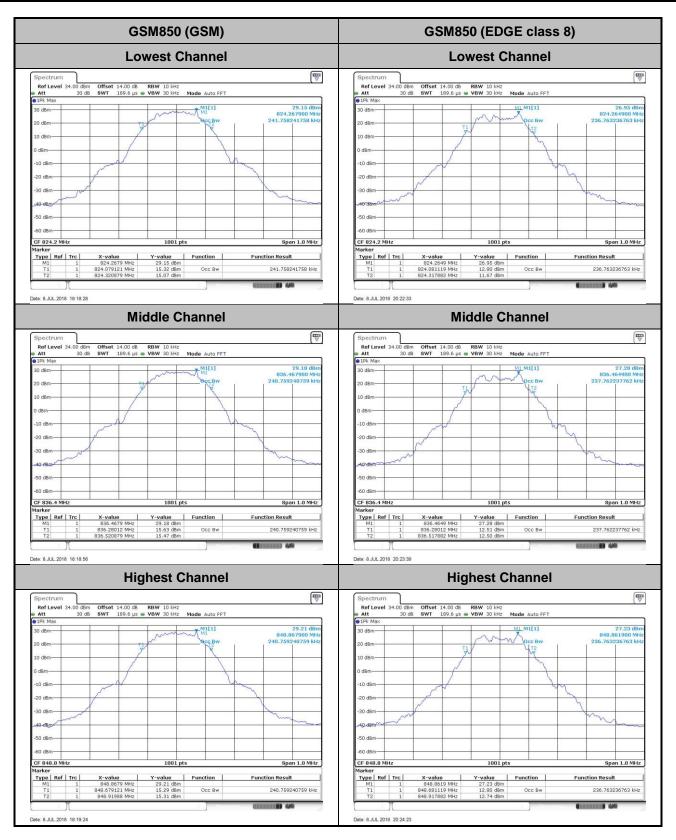
Mode	GSM1900(MHz)		
Mod.	GSM EDGE class 8		
Lowest CH	0.242	0.238	
Middle CH	0.242	0.235	
Highest CH	0.244	0.239	

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.12	4.14	4.12
Middle CH	4.13	4.15	4.12
Highest CH	4.12	4.12	4.12

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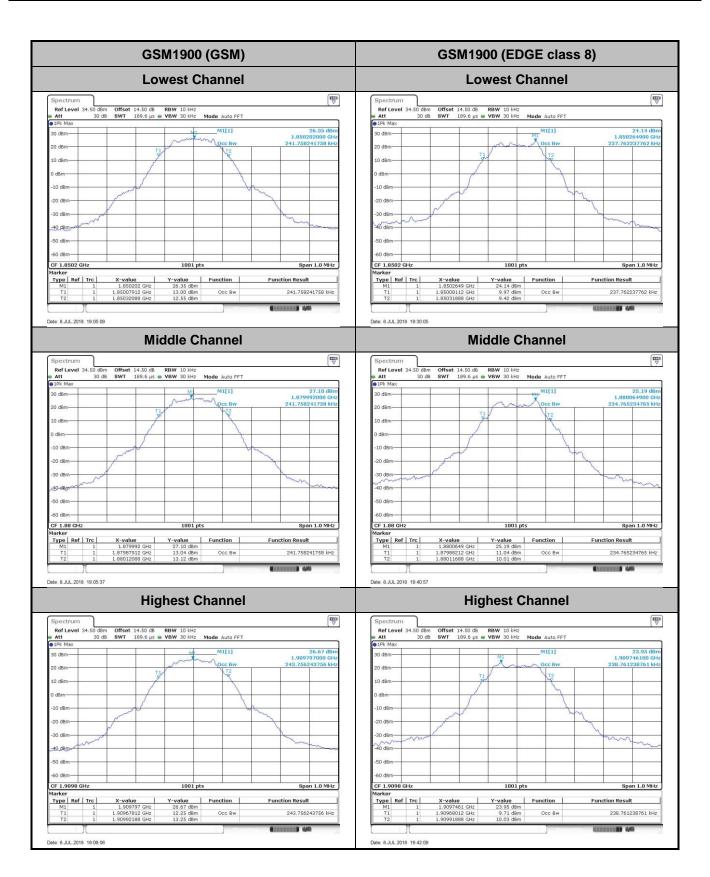
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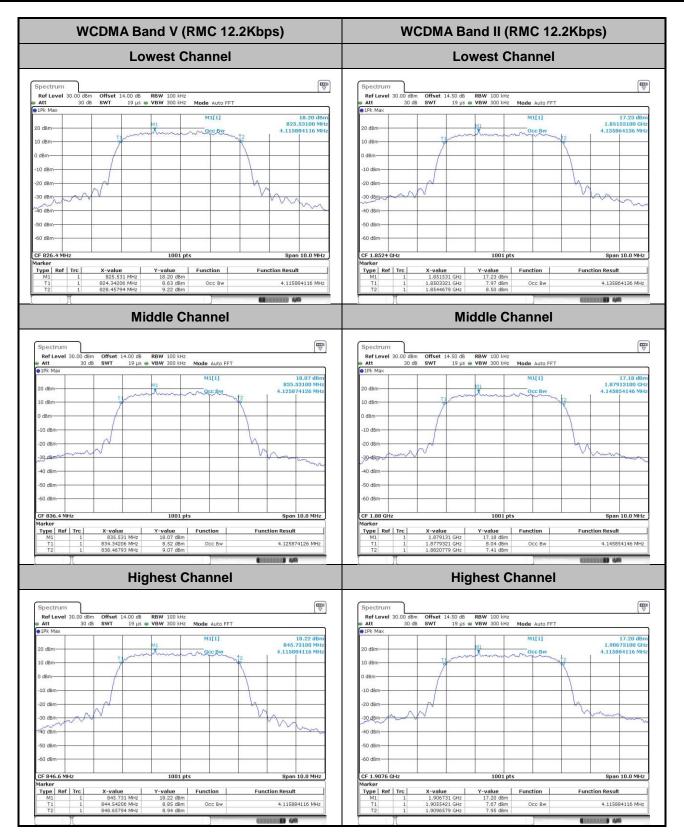
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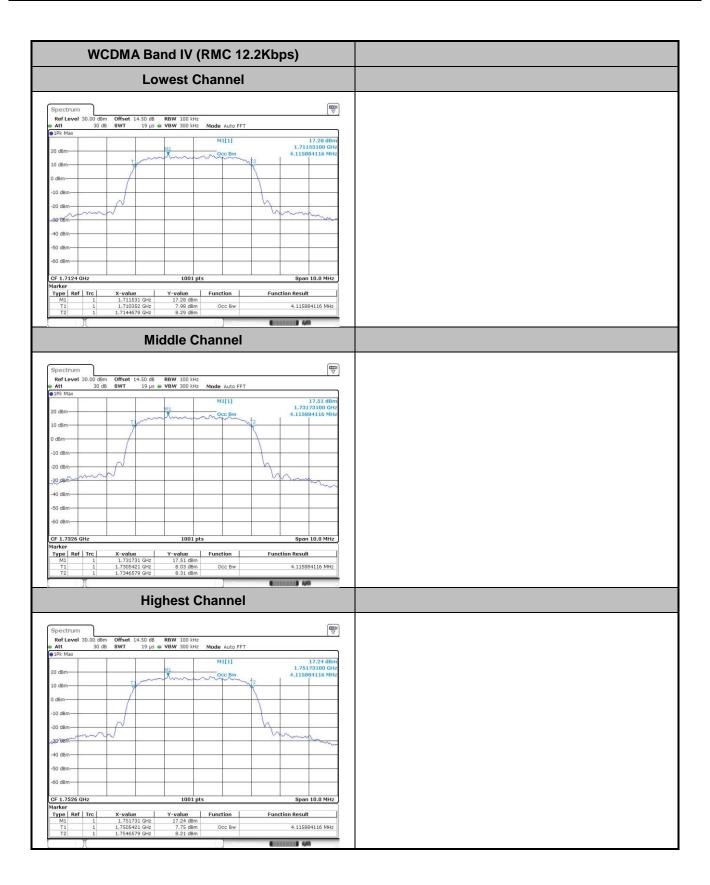
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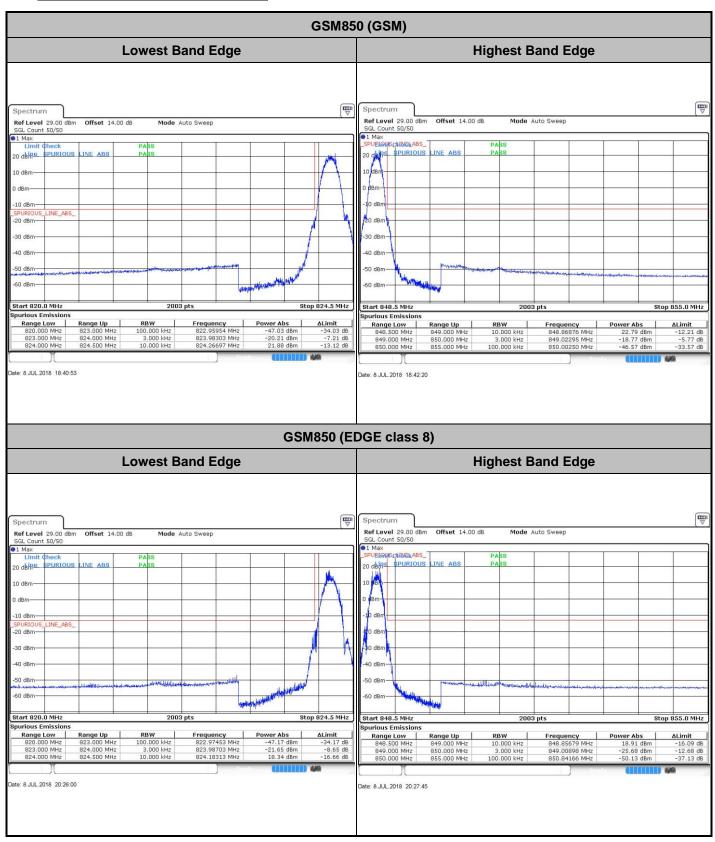
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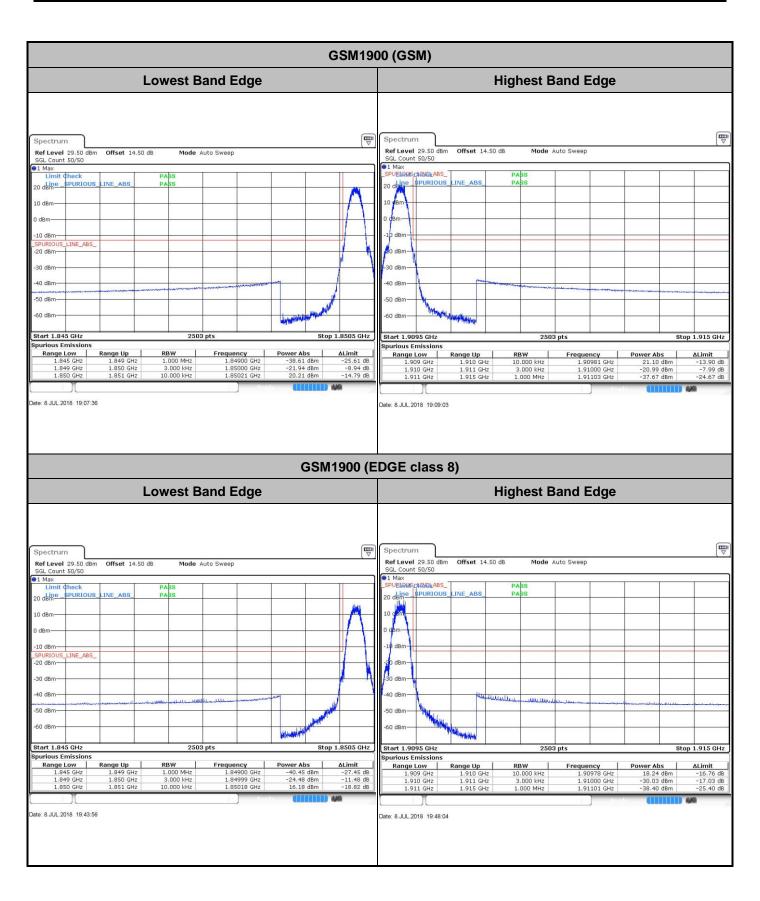
Conducted Band Edge



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