FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.

EQUIPMENT : Mobile Phone

BRAND NAME : XIAOMI
MODEL NAME : 2201123G
FCC ID : 2AFZZ123G

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

TEST DATE(S) : Oct. 31, 2021 ~ Dec. 02, 2021

We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: Alex Wang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

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Cert #5145.02

Report No.: FG102709A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1O2709A	Rev. 01	Initial issue of report	Dec. 20, 2021

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SUMMARY OF TEST RESULT

Report Section FCC Rule		Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	-	Report Only	-
	§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 for	< 2.5 ppm for Part 22		
3.9	§2.1055 §24.235 §27.54	Temperature & Voltage	Within Authorized Band	PASS	-
4.4 §2.1053; §22.917(a); Field Strength of Spurious Radiation		< 43+10log10(P[Watts])	PASS	Under limit 27.17 dB at 2510.000 MHz	

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Phone			
Brand Name	XIAOMI			
Model Name	2201123G			
FCC ID	2AFZZ123G			
IMEI Code	Conducted: 860978050065073/860978050065081 Radiation: 860978050061858/860978050061866			
HW Version	P2.1			
SW Version	MIUI13			
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-related Product Specification					
- Ctandards	GSM/GPRS/EDGE:				
		824 MHz ~ 849 MHz			
		1850MHz ~ 1910MHz			
Tx Frequency	WCDMA:				
		824 MHz ~ 849 MHz			
		1850 MHz ~ 1910 MHz			
		1710 MHz ~ 1755 MHz			
	GSM/GPR				
	850:	869 MHz ~ 894 MHz			
	1900:	1930 MHz ~ 1990 MHz			
Rx Frequency	WCDMA:				
	Band V:	869 MHz ~ 894 MHz			
	Band II:	1930 MHz ~ 1990 MHz			
	Band IV:	2110 MHz ~ 2155 MHz			
	For Ant 0:				
	GSM/GPR	S/EDGE:			
	850:	32.97 dBm			
	WCDMA:				
	Band V:	24.34 dBm			
	For Ant 1:				
	GSM/GPRS	S/EDGE:			
	850:	33.08 dBm			
	WCDMA:				
	Band V:	24.36 dBm			
Maximum Output Bower to Antonna	For Ant 3:				
Maximum Output Power to Antenna	GSM/GPRS/EDGE:				
	1900:	30.02 dBm			
	WCDMA:				
	Band II:	23.93 dBm			
	Band IV:	23.99 dBm			
	For Ant 4:				
	GSM/GPR	S/EDGE:			
		29.86 dBm			
	WCDMA:				
	Band II:	24.03 dBm			
		24.06 dBm			
Antenna Type	PIFA Antenn	na			
	For Ant 0:				
	Cellular Ban	d: -4.1 dBi			
Antonno Coin	For Ant 1:	d. 4 0 dD:			
Antenna Gain	Cellular Ban	u4.6 UDI			
	For Ant 3: PCS Band: -2.7 dBi				
	AWS Band:				
	, wwo band.	2.1 (10)			

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	For Ant 4:
	PCS Band: -1.5 dBi
	AWS Band: -1.8 dBi
	GSM/GPRS: GMSK
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK
	WCDMA: BPSK
Type of Modulation	HSDPA/DC-HSDPA : QPSK
	HSUPA: QPSK
	HSPA+: 16QAM (uplink is not supported)
	DC-HSDPA: 64QAM

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Note: The maximum ERP/EIRP is calculated from max output power and antenna gain, only the maximum ERP/EIRP is shown in the report: Cellular Band for Ant.0, PCS/ AWS Band for Ant.4.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power, and Emission Designator

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum ERP/EIRP (W)	Emission Designator
Part 22H	GSM850 (GSM)	824.2 ~ 848.8	GMSK	0.4699	246KGXW
Part 22H	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.1202	245KG7W
Part 22H	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0644	4M17F9W
Part 24E	GSM1900 (GSM)	1850.2 ~ 1909.8	GMSK	0.6855	244KGXW
Part 24E	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.2564	246KG7W
Part 24E	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.1791	4M16F9W
Part 27L	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.1683	4M21F9W

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1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Test Firm	Sporton International (Kunshan) Inc.					
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone					
Test Site Location	Jiangsu Province 215300 People's Republic of China					
	TEL: +86-512-57900158					
	FAX: +86-512-579009	58				
	Sparton Sito No.	ECC Designation No.	FCC Test Firm			
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.			
	03CH04-KS TH01-KS	CN1257	314309			

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 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:

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

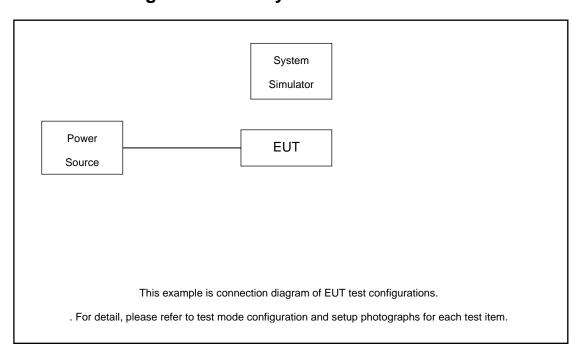
Test Modes						
Band	Radiated TCs	Conducted TCs				
GSM 850	■ GSM Link	■ GSM Link				
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link				
CCM 4000	■ GSM Link	■ GSM Link				
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link				
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band II	■ 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



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m

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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 5.4 dB and a 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 5.4 + 10 = 15.4 (dB)

2.5 Frequency List of Low/Middle/High Channels

Frequency List						
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest		
GSM850	Channel	128	189	251		
GSIVIOSU	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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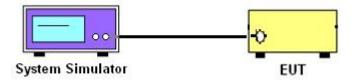
3 Conducted Test Result

3.1 Measuring Instruments

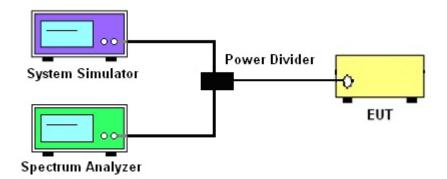
See list of measuring instruments of this test report.

3.2 Test Setup

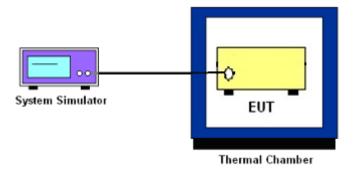
3.2.1 Conducted Output Power



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.
- 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.

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.

Test Procedures for Voltage Variation 3.9.3

- 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.
- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the 4. battery operating end point, which shall be specified by the manufacturer.
- The variation in frequency was measured for the worst case. 5.

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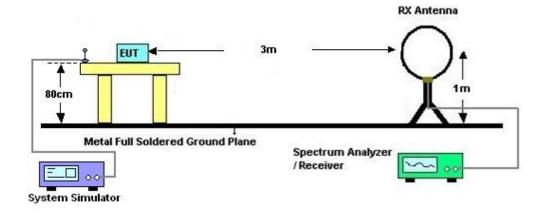
4 Radiated Test Items

4.1 Measuring Instruments

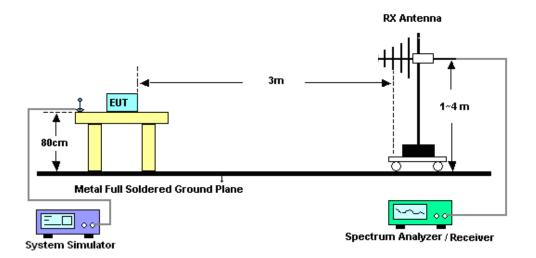
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz

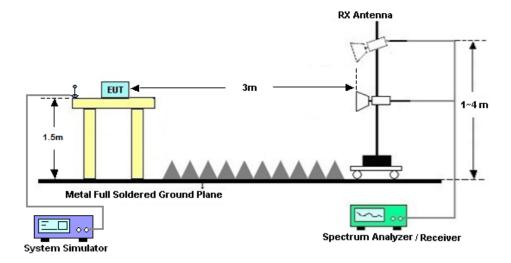


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4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

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4.4 Field Strength of Spurious Radiation Measurement

4.4.1 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	101040	10Hz~40GHz	Oct. 14, 2021	Oct. 31, 2021~ Nov. 30, 2021	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Oct. 31, 2021~ Nov. 30, 2021	Aug. 25, 2022	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 12, 2021	Oct. 31, 2021~ Nov. 30, 2021	Jul. 11, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Dec. 02, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Dec. 02, 2021	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Dec. 02, 2021	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Dec. 02, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Dec. 02, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Dec. 02, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Dec. 02, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Dec. 02, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Dec. 02, 2021	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 02, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 02, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 02, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

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

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = 2Uc(y))	2.0UB

----- THE END -----

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Appendix A. Test Results of Conducted Test

Toot Engineer	Simla Wana	Temperature :	22~23℃
Test Engineer :	Simle Wang	Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

For Ant0:

GSM850	Burst /	Average Power	(dBm)	EDD/M/		
TX Channel	128	189	251	- ERP(W)		
Frequency (MHz)	824.2	836.4	848.8	L	М	Н
GSM 1 Tx slot	32.72	32.86	32.97	0.4436	0.4581	0.4699
GPRS 1 Tx slot	32.81	32.87	32.88	0.4529	0.4592	0.4603
GPRS 2 Tx slots	29.62	29.40	29.66	0.2173	0.2065	0.2193
GPRS 3 Tx slots	27.75	27.77	27.82	0.1413	0.1419	0.1435
GPRS 4 Tx slots	26.30	26.58	26.57	0.1012	0.1079	0.1076
EDGE 1 Tx slot	26.71	26.70	27.05	0.1112	0.1109	0.1202
EDGE 2 Tx slots	23.68	23.63	23.55	0.0553	0.0547	0.0537
EDGE 3 Tx slots	21.74	22.01	22.03	0.0354	0.0377	0.0378
EDGE 4 Tx slots	20.32	20.64	20.62	0.0255	0.0275	0.0274

Band		WCDMA V					
TX Channel		4132	4182	4233		ERP(W)	
	Rx Channel	4357	4407	4458			
Fre	equency (MHz)	826.4	836.4	846.6	L	M	Н
3GPP Rel 99	AMR 12.2Kbps	24.20	24.31	24.22	0.0624	0.0640	0.0627
3GPP Rel 99	RMC 12.2Kbps	24.26	24.34	24.27	0.0632	0.0644	0.0634
3GPP Rel 6	HSDPA Subtest-1	23.38	23.19	23.31	0.0516	0.0494	0.0508
3GPP Rel 6	HSDPA Subtest-2	23.21	23.38	23.07	0.0497	0.0516	0.0481
3GPP Rel 6	HSDPA Subtest-3	22.75	22.83	22.69	0.0447	0.0455	0.0441
3GPP Rel 6	HSDPA Subtest-4	22.59	22.77	22.50	0.0431	0.0449	0.0422
3GPP Rel 8	DC-HSDPA Subtest-1	23.35	23.25	23.23	0.0513	0.0501	0.0499
3GPP Rel 8	DC-HSDPA Subtest-2	23.10	23.36	23.09	0.0484	0.0514	0.0483
3GPP Rel 8	DC-HSDPA Subtest-3	22.89	22.86	22.79	0.0461	0.0458	0.0451
3GPP Rel 8	DC-HSDPA Subtest-4	22.53	22.84	22.61	0.0425	0.0456	0.0433
3GPP Rel 6	HSUPA Subtest-1	23.09	23.29	23.34	0.0483	0.0506	0.0512
3GPP Rel 6	HSUPA Subtest-2	21.36	21.22	21.20	0.0324	0.0314	0.0313
3GPP Rel 6	HSUPA Subtest-3	22.18	22.53	22.10	0.0392	0.0425	0.0385
3GPP Rel 6	HSUPA Subtest-4	21.05	21.24	20.93	0.0302	0.0316	0.0294
3GPP Rel 6	HSUPA Subtest-5	23.16	23.36	23.42	0.0491	0.0514	0.0521

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For Ant4:

GSM1900	Burst /	Average Power	(dBm)	EIDD(M)		
TX Channel	512	661	810	EIRP(W)		
Frequency (MHz)	1850.2	1880	1909.8	L	M	Н
GSM 1 Tx slot	29.72	29.53	29.86	0.6637	0.6353	0.6855
GPRS 1 Tx slot	29.48	29.77	29.50	0.6281	0.6714	0.6310
GPRS 2 Tx slots	26.19	26.07	25.97	0.2944	0.2864	0.2799
GPRS 3 Tx slots	24.55	24.77	24.63	0.2018	0.2123	0.2056
GPRS 4 Tx slots	23.21	23.38	23.24	0.1483	0.1542	0.1493
EDGE 1 Tx slot	25.18	25.59	25.25	0.2333	0.2564	0.2371
EDGE 2 Tx slots	21.97	22.08	22.22	0.1114	0.1143	0.1180
EDGE 3 Tx slots	20.22	20.64	20.39	0.0745	0.0820	0.0774
EDGE 4 Tx slots	18.71	18.97	18.92	0.0526	0.0558	0.0552

Band		WCDMA IV					
TX Channel		1312	1413	1513	EIRP(W)		
	Rx Channel	1537	1638	1738			
Fre	equency (MHz)	1712.4	1732.6	1752.6	L	М	Н
3GPP Rel 99	AMR 12.2Kbps	23.85	23.97	23.95	0.1603	0.1648	0.1641
3GPP Rel 99	RMC 12.2Kbps	23.92	24.06	24.01	0.1629	0.1683	0.1663
3GPP Rel 6	HSDPA Subtest-1	22.96	22.72	22.93	0.1306	0.1236	0.1297
3GPP Rel 6	HSDPA Subtest-2	22.65	22.94	22.63	0.1216	0.1300	0.1211
3GPP Rel 6	HSDPA Subtest-3	22.43	22.37	22.21	0.1156	0.1140	0.1099
3GPP Rel 6	HSDPA Subtest-4	22.21	22.46	22.08	0.1099	0.1164	0.1067
3GPP Rel 8	DC-HSDPA Subtest-1	22.97	22.78	22.91	0.1309	0.1253	0.1291
3GPP Rel 8	DC-HSDPA Subtest-2	22.60	22.90	22.62	0.1202	0.1288	0.1208
3GPP Rel 8	DC-HSDPA Subtest-3	22.37	22.29	22.15	0.1140	0.1119	0.1084
3GPP Rel 8	DC-HSDPA Subtest-4	22.33	22.47	22.25	0.1130	0.1167	0.1109
3GPP Rel 6	HSUPA Subtest-1	22.66	22.71	22.93	0.1219	0.1233	0.1297
3GPP Rel 6	HSUPA Subtest-2	20.71	20.66	20.58	0.0778	0.0769	0.0755
3GPP Rel 6	HSUPA Subtest-3	21.70	22.04	21.78	0.0977	0.1057	0.0995
3GPP Rel 6	HSUPA Subtest-4	20.64	20.57	20.59	0.0766	0.0753	0.0757
3GPP Rel 6	HSUPA Subtest-5	22.60	22.85	22.79	0.1202	0.1274	0.1256

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	Band		WCDMA II				
TX Channel		9262	9400	9538	EIRP(W)		
	Rx Channel	9662	9800	9938			
Fre	equency (MHz)	1852.4	1880	1907.6	L	M	Н
3GPP Rel 99	AMR 12.2Kbps	23.87	23.92	23.64	0.1726	0.1746	0.1637
3GPP Rel 99	RMC 12.2Kbps	23.95	24.03	23.78	0.1758	0.1791	0.1690
3GPP Rel 6	HSDPA Subtest-1	23.31	22.90	23.31	0.1517	0.1380	0.1517
3GPP Rel 6	HSDPA Subtest-2	23.34	22.87	23.34	0.1528	0.1371	0.1528
3GPP Rel 6	HSDPA Subtest-3	22.81	22.42	22.81	0.1352	0.1236	0.1352
3GPP Rel 6	HSDPA Subtest-4	22.78	22.38	22.78	0.1343	0.1225	0.1343
3GPP Rel 8	DC-HSDPA Subtest-1	23.17	22.90	23.20	0.1469	0.1380	0.1479
3GPP Rel 8	DC-HSDPA Subtest-2	23.17	22.76	23.18	0.1469	0.1337	0.1472
3GPP Rel 8	DC-HSDPA Subtest-3	22.74	22.27	22.66	0.1330	0.1194	0.1306
3GPP Rel 8	DC-HSDPA Subtest-4	22.60	22.28	22.73	0.1288	0.1197	0.1327
3GPP Rel 6	HSUPA Subtest-1	23.33	22.91	22.85	0.1524	0.1384	0.1365
3GPP Rel 6	HSUPA Subtest-2	21.30	20.90	20.88	0.0955	0.0871	0.0867
3GPP Rel 6	HSUPA Subtest-3	22.30	21.90	21.83	0.1202	0.1096	0.1079
3GPP Rel 6	HSUPA Subtest-4	21.31	20.91	20.84	0.0957	0.0873	0.0859
3GPP Rel 6	HSUPA Subtest-5	23.30	22.90	22.84	0.1514	0.1380	0.1361

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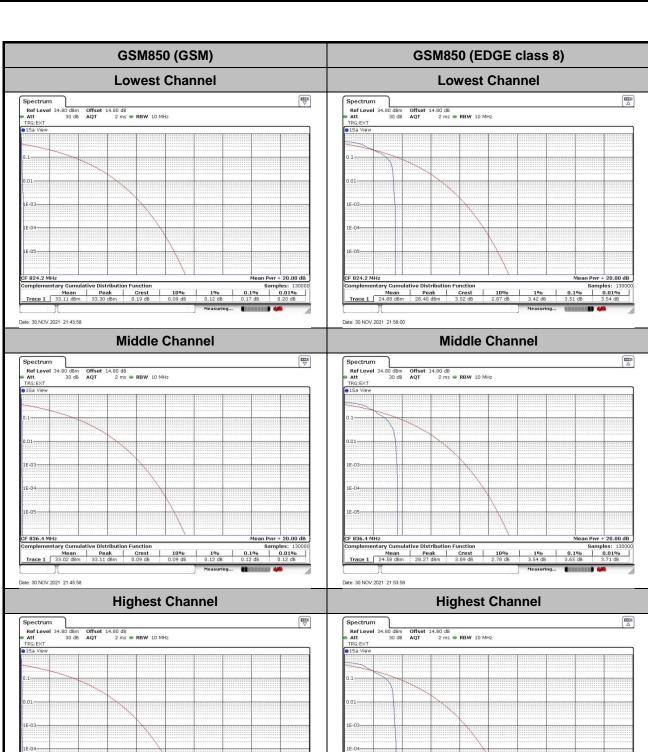
Peak-to-Average Ratio

Mode	GSM	Limit: 13dB		
Mod.	GSM	EDGE class 8	Result	
Lowest CH	0.17	3.51		
Middle CH	0.12	3.65	PASS	
Highest CH	0.12	3.51	1	

Mode	GSM	Limit: 13dB		
Mod.	GSM	GSM EDGE class 8		
Lowest CH	0.12	3.51		
Middle CH	0.12	3.39	PASS	
Highest CH	0.12	3.36		

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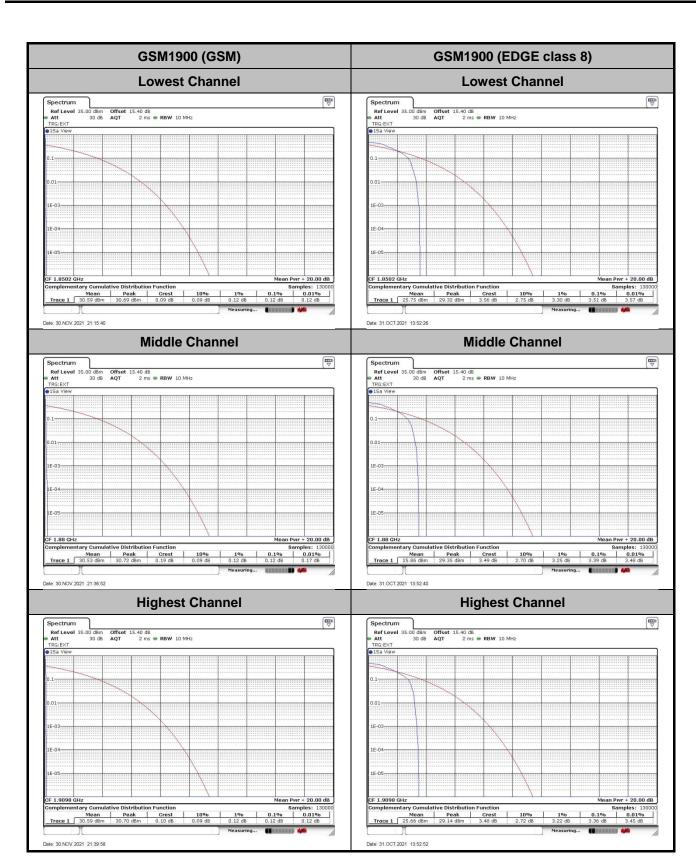
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Samples: 13000 0.1% 0.01% 0.12 de 0.12 de

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Samples: 13000 0.1% 0.01% 3.51 dB 3.50 dB



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26dB Bandwidth

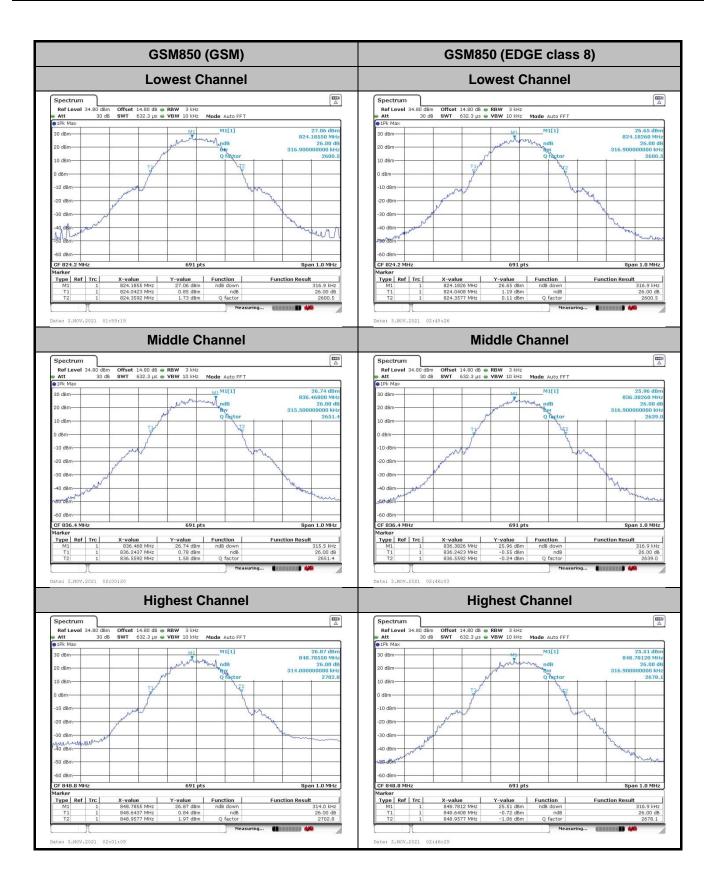
Mode	GSM850			
Mod.	GSM	EDGE class 8		
Lowest CH	0.32	0.32		
Middle CH	0.32	0.32		
Highest CH	0.31	0.32		

Mode	GSM1900		
Mod.	GSM	EDGE class 8	
Lowest CH	0.31	0.31	
Middle CH	0.31	0.31	
Highest CH	0.31	0.31	

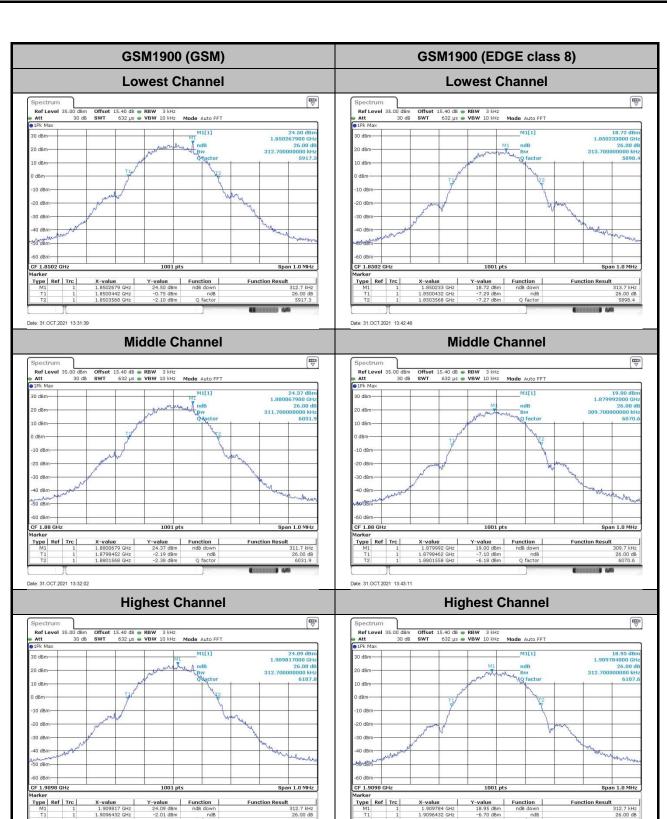
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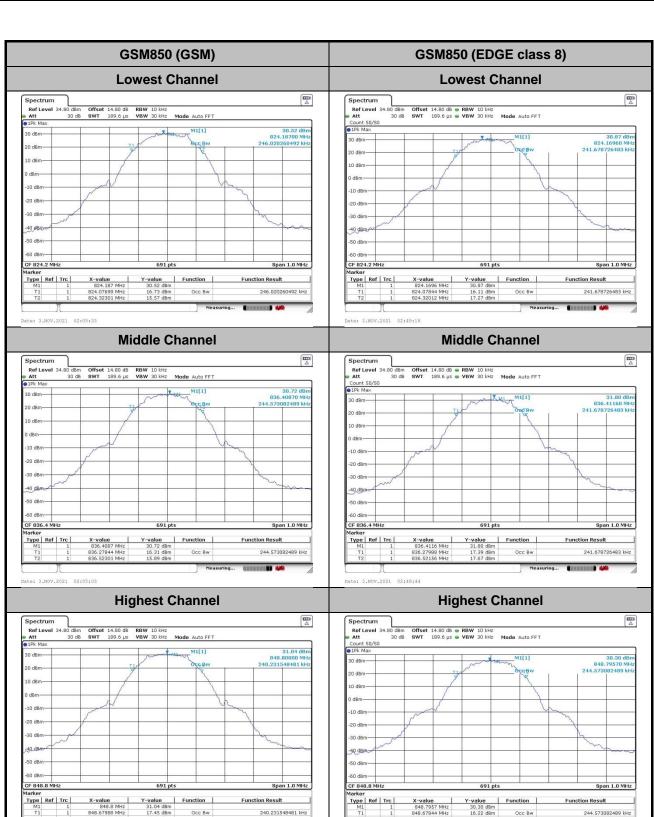
Occupied Bandwidth

Mode	GSM850		
Mod.	GSM	EDGE class 8	
Lowest CH	0.246	0.242	
Middle CH	0.245	0.242	
Highest CH	0.240	0.245	

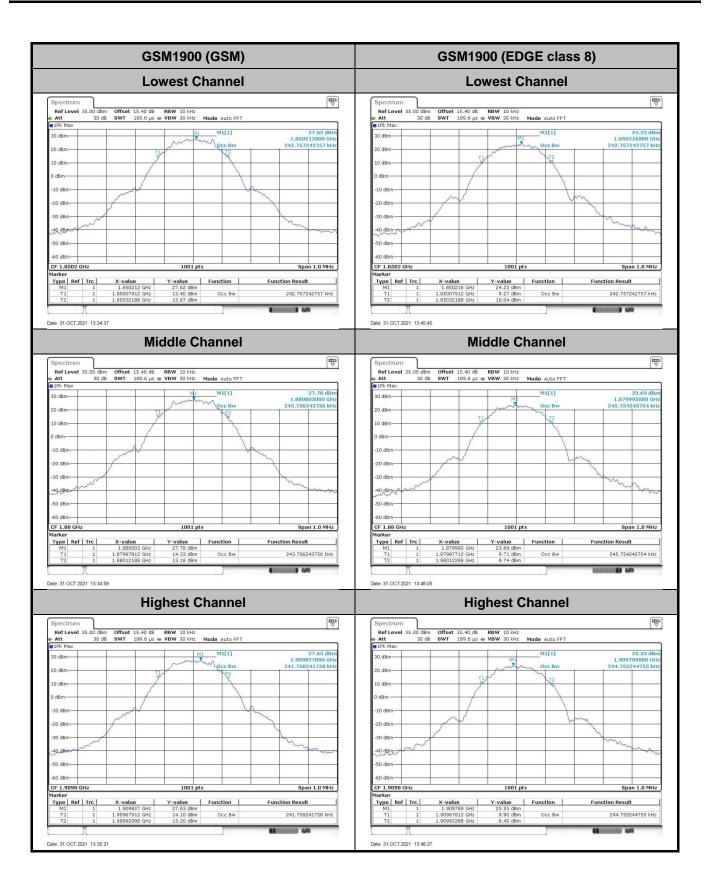
Mode	GSM1900		
Mod.	GSM	EDGE class 8	
Lowest CH	0.243	0.243	
Middle CH	0.244	0.246	
Highest CH	0.242	0.245	

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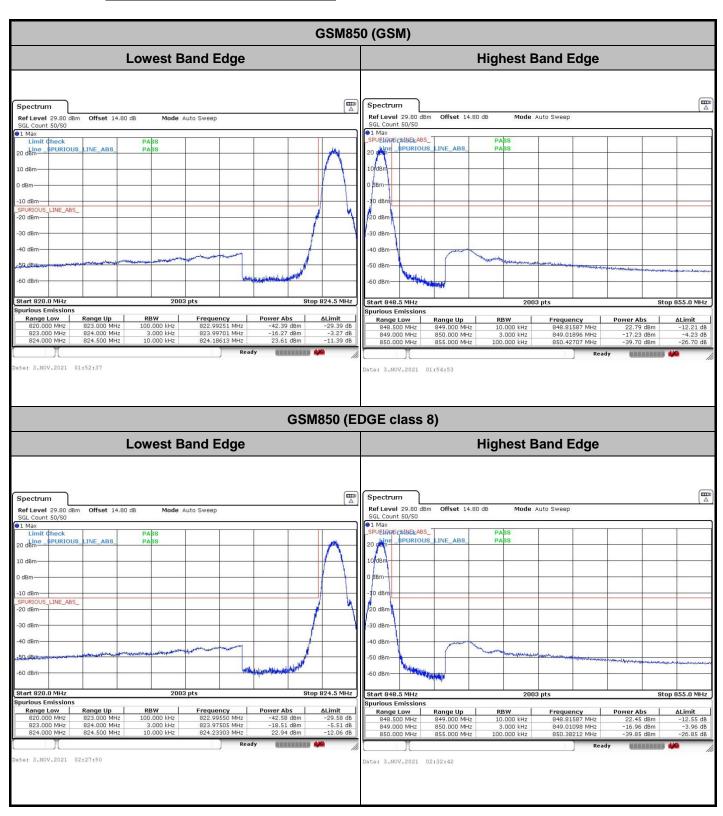


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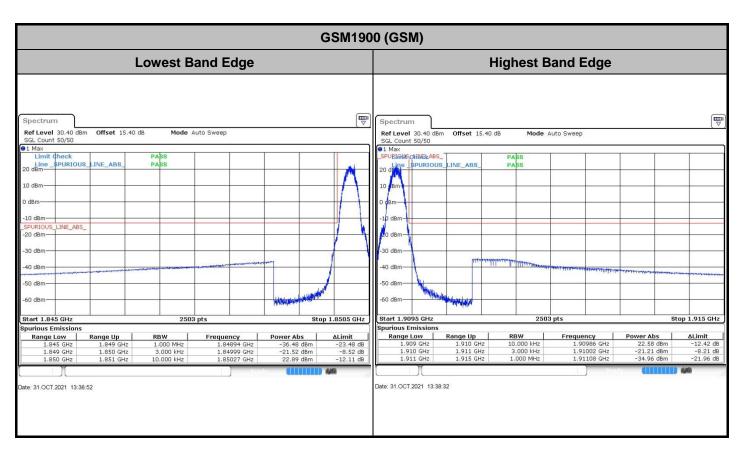
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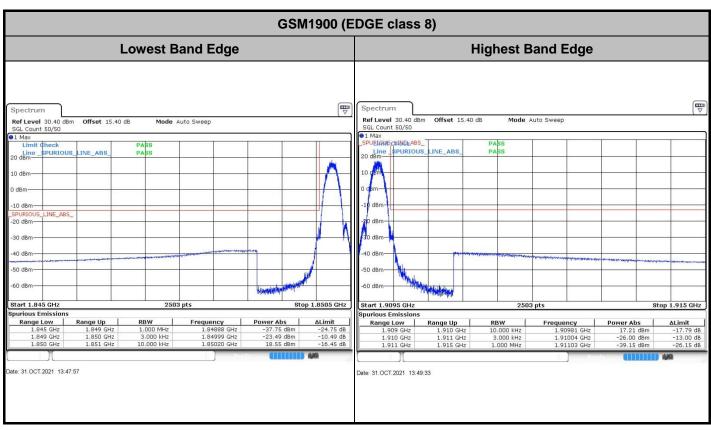
Conducted Band Edge



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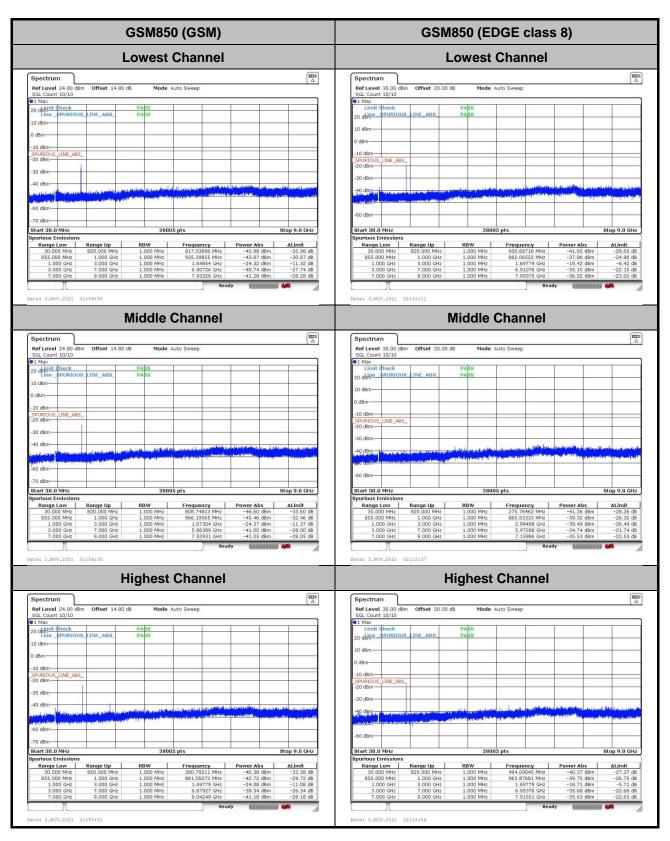




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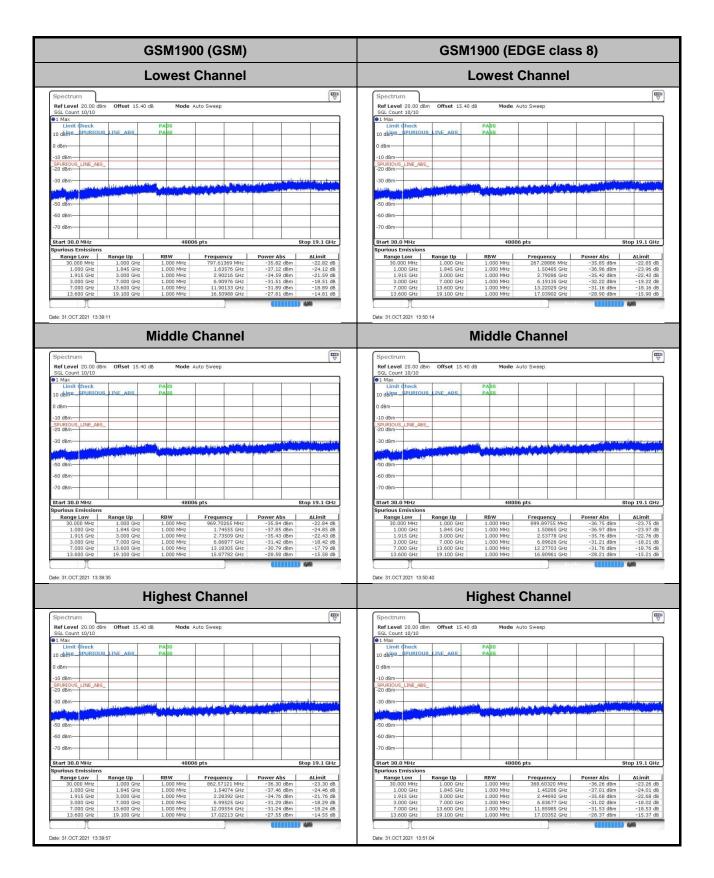
Conducted Spurious Emission



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FCC RF Test Report



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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0108	0.0224	
40	Normal Voltage	0.0032	0.0178	
30	Normal Voltage	0.0130	0.0087	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0145	0.0155	
0	Normal Voltage	0.0078	0.0169	
-10	Normal Voltage	0.0175	0.0234	PASS
-20	Normal Voltage	0.0159	0.0065	
-30	Normal Voltage	0.0143	0.0109	
20	Maximum Voltage	0.0096	0.0132	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0191	0.0036	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0058	0.0181	
40	Normal Voltage	0.0015	0.0131	
30	Normal Voltage	0.0119	0.0023	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0145	0.0112	
0	Normal Voltage	0.0136	0.0135	
-10	Normal Voltage	0.0089	0.0174	PASS
-20	Normal Voltage	0.0021	0.0127	
-30	Normal Voltage	0.0118	0.0119	
20	Maximum Voltage	0.0052	0.0018	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0124	0.0027	

Note:

- 1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage = 4.3 V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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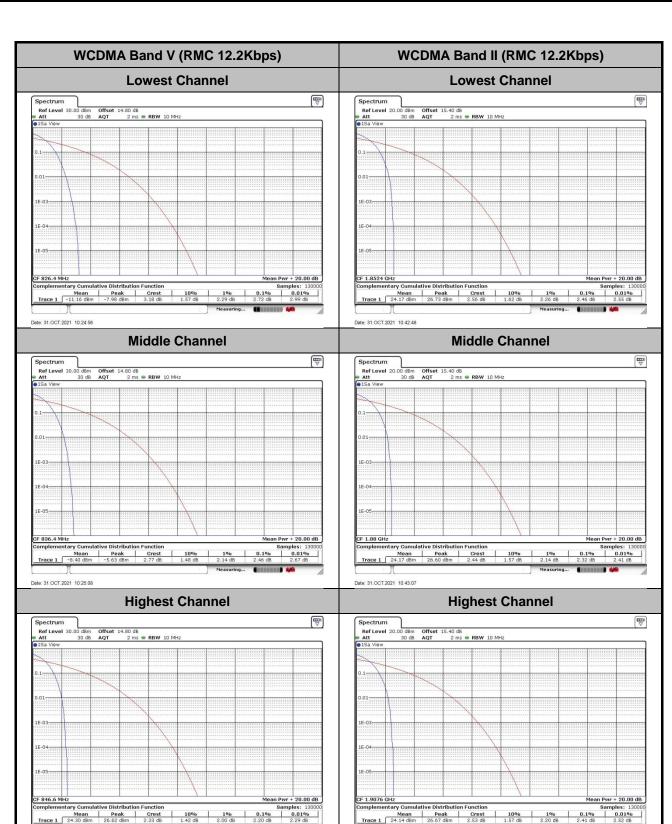
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Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.72	2.46	2.00	
Middle CH	2.46	2.32	2.17	PASS
Highest CH	2.20	2.41	1.86	

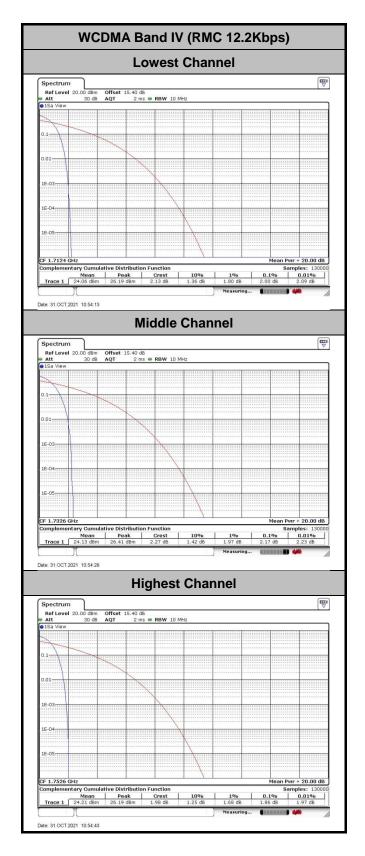
Sporton International (Kunshan) Inc.

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26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.785	4.745	4.805
Middle CH	4.755	4.765	4.785
Highest CH	4.785	4.765	4.855

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