FCC RF Test Report

APPLICANT : FIH International Co., Ltd.

EQUIPMENT : 3G mobile phone

BRAND NAME : Nokia MODEL NAME : TA-1036

FCC ID : 2AJOTTA-1036

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 26, 2017 and testing was completed on Jul. 09, 2017. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in 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.

Prepared by: James Huang / Manager

Approved by: Jones Tsai / Manager

FCC ID: 2AJOTTA-1036

Sporton International (KunShan) INC.
No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China

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REVISION HISTORY

Report No.: FG752603

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG752603	Rev. 01	Initial issue of report	Jul. 12, 2017

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SUMMARY OF TEST RESULT

Report Section	THE FULL RIVER I DESCRIPTION		Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.4	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049 §22.917(b) §24.238(b)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for	< 2.5 ppm for Part 22H	DACC	
3.8	§2.1055 §24.235	Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 43.86 dB at 3759.000 MHz

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1 General Description

1.1 Applicant

FIH International Co., Ltd.

No.18, Tongji zhonglu, Beijing Economic&Technological Development Area

1.2 Manufacturer

HMD Global Oy

Karaportti 2 02610 Espoo FINLAND

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	3G mobile phone					
Brand Name	Nokia					
Model Name	TA-1036					
FCC ID	2AJOTTA-1036					
EUT supports Radios application	GSM/GPRS/EGPRS(Downlink Only)/WCDMA/HSPA Bluetooth v2.1 + EDR					
IMEI Code	Conducted: 004402970550251 Radiation: 004402970550681					
HW Version	0162					
SW Version	0.1721.3.11.11					
EUT Stage	Identical Prototype					

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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				
Staridardo	1	·		
		RS/EDGE(Downlink Only):		
		824.2 MHz ~ 848.8 MHz		
Tx Frequency		1850.2 MHz ~ 1909.8MHz		
	WCDMA:			
		826.4 MHz ~ 846.6 MHz		
	Band II:	1852.4 MHz ~ 1907.6 MHz		
	GSM/GPF	RS/EDGE(Downlink Only):		
	850:	869.2 MHz ~ 893.8 MHz		
Dy Francisco	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		
	GSM/GPRS/EDGE(Downlink Only):			
	850:	32.75 dBm		
	1900:	30.48 dBm		
Maximum Output Power to Antenna	WCDMA:			
	Band V:	22.55 dBm		
	Band II:	22.66 dBm		
Antenna Type	PIFA Anten	ina		
	Cellular Band: 1.11 dBi			
Antenna Gain	PCS Band: 2.02 dBi			
	GSM: GMS	K		
	GPRS: GM	SK		
Type of Modulation	EDGE: GMSK / 8PSK(Downlink Only)			
	WCDMA : BPSK (Uplink)			
	HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)			

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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	1.4825	0.0096 ppm	244KGXW
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.1416	0.0239 ppm	4M10F9W
Part 24E	GSM1900 GSM	GMSK	1.7783	0.0191 ppm	244KGXW
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.2938	0.0064 ppm	4M11F9W

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1.7 Testing Location

Test Site	Sporton International (KunShan) INC.				
	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Took Cita No	Sporton Site No.		FCC Registration No.		
Test Site No.	TH01-KS	03CH03-KS	306251		

Note: The test site complies with ANSI C63.4 2014 requirement.

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)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- 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 v02r02 with maximum output power.

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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 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						
GSM 1900	■ GSM Link	■ GSM Link						
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

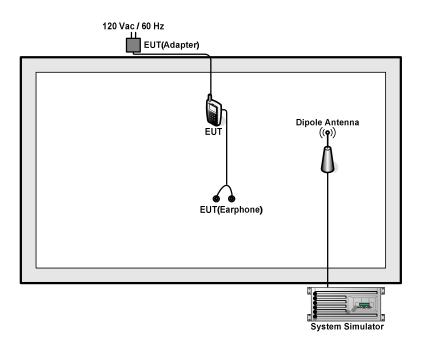
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2.2 Connection Diagram of Test System



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 4.4 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 4.4 + 10 = 14.4 (dB)

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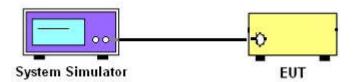
3 Conducted Test Result

3.1 Measuring Instruments

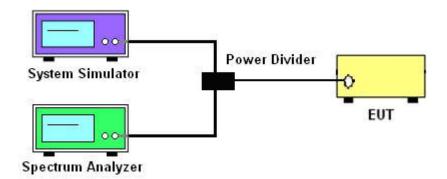
See list of measuring instruments of this test report.

3.2 Test Setup

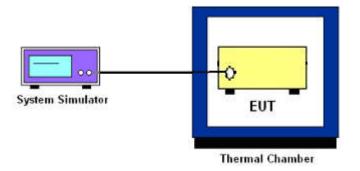
3.2.1 Conducted Output Power



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.

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 transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

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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 FCC KDB 971168 D01 v02r02 Section 5.7.1.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. Set EUT to transmit at maximum output power.
- 4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
- 5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.

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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 FCC KDB 971168 v02r02 Section 4.2.
- 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.
- 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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Conducted Band Edge 3.7

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.

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3.7.2 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
- 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 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)
 - =P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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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 FCC KDB 971168 D01 v02r02 Section 6.0.
- 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)
- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

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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.

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3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. 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 steps 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 FCC KDB 971168 D01 v02r02 Section 9.0.
- 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 measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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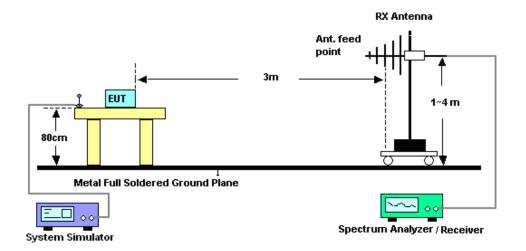
4 Radiated Test Items

4.1 Measuring Instruments

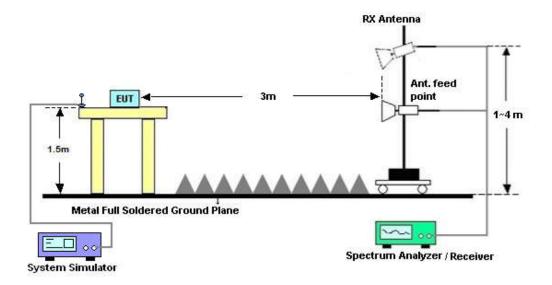
See list of measuring instruments of this test report.

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

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 FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
- 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)
 - = P(W) [43 + 10log(P)] (dB)
 - $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
 - = -13dBm.

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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	Aug. 09, 2016	Jun. 19, 2017	Aug. 08, 2017	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	HZ014011440	-40~+150°C 20%~95%RH	Apr. 18, 2017	Jun. 19, 2017	Apr. 17, 2018	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Apr. 18, 2017	Jul. 09, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz-2GHz	Apr. 22, 2017	Jul. 09, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Jul. 09, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz ~40GHz	Oct. 19, 2016	Jul. 09, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 18, 2017	Jul. 09, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35 -HG	1887435	18~40GHz	Oct. 13, 2016	Jul. 09, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Jul. 09, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 09, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 09, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 09, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = 2Uc(y))	2.005

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

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

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

	Conducted Power (*Unit: dBm)					
Band		GSM850		GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.71	32.73	32.75	30.48	30.11	30.30
GPRS class 8	32.70	32.71	32.74	30.45	30.09	30.29
GPRS class 10	30.89	30.94	30.99	28.01	28.17	28.38
GPRS class 11	28.91	28.96	28.99	26.39	26.56	26.76
GPRS class 12	27.41	27.47	27.51	24.39	24.59	24.81

	Conducted Power (*Unit: dBm)					
Band	W	CDMA Band	١٧	WCDMA Band II		d II
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
AMR 12.2Kbps	22.51	22.53	22.50	22.64	22.65	22.61
RMC 12.2Kbps	<mark>22.55</mark>	22.54	22.51	22.65	<mark>22.66</mark>	22.63
HSDPA Subtest-1	22.11	21.72	21.77	21.73	21.86	21.85
HSDPA Subtest-2	22.14	21.84	21.91	21.89	22.01	21.99
HSDPA Subtest-3	22.00	21.85	21.90	21.91	22.00	22.00
HSDPA Subtest-4	22.00	21.81	21.87	21.88	22.00	22.00
HSUPA Subtest-1	20.86	20.28	20.26	20.30	20.37	20.42
HSUPA Subtest-2	19.93	19.55	19.68	19.70	19.72	19.75
HSUPA Subtest-3	21.21	20.90	21.00	21.05	21.07	21.10
HSUPA Subtest-4	20.65	20.33	20.43	20.51	20.54	20.59
HSUPA Subtest-5	22.13	22.02	22.11	22.40	22.40	22.40

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ERP/EIRP

GSM850 (G _τ - L _c = 1.11dBi)					
Champal	128	189	251		
Channel	(Low)	(Mid)	(High)		
Frequency	004.0	000.4	040.0		
(MHz)	824.2	836.4	848.8		
Conducted Power (dBm)	32.71	32.73	32.75		
Conducted Power (Watts)	1.8664	1.8750	1.8836		
ERP(dBm)	31.67	31.69	31.71		
ERP(Watts)	1.4689	1.4757	1.4825		

	GSM1900 (G _T - L _C = 2.02dBi)				
Ohamal	512	661	810		
Channel	(Low)	(Mid)	(High)		
Frequency	4050.2	1880	1909.8		
(MHz)	1850.2				
Conducted Power (dBm)	30.48	30.11	30.30		
Conducted Power (Watts)	1.1169	1.0257	1.0715		
EIRP(dBm)	32.50	32.13	32.32		
EIRP(Watts)	1.7783	1.6331	1.7061		

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1	WCDMA Band V (G _T - L _{C=} 1.11dBi)				
Channel	4132	4182	4233		
Channel	(Low)	(Mid)	(High)		
Frequency	000.4		242.2		
(MHz)	826.4	836.4	846.6		
Conducted Power (dBm)	22.55	22.54	22.51		
Conducted Power (Watts)	0.1799	0.1795	0.1782		
ERP(dBm)	21.51	21.50	21.47		
ERP(Watts)	0.1416	0.1413	0.1403		

WCDMA Band II (G _T - L _{C=} 2.02dBi)					
Channel	9262	9400	9538		
Channel	(Low)	(Mid)	(High)		
Frequency	4050 4	1880	4007.0		
(MHz)	1852.4		1907.6		
Conducted Power (dBm)	22.65	22.66	22.63		
Conducted Power (Watts)	0.1841	0.1845	0.1832		
EIRP(dBm)	24.67	24.68	24.65		
EIRP(Watts)	0.2931	0.2938	0.2917		

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Peak-to-Average Ratio

Mode	GSM850(dB)	GSM1900(dB)	Limit: 13dB
Mod.	GSM	GSM	Result
Lowest CH	0.12	0.12	
Middle CH	0.12	0.12	PASS
Highest CH	0.12	0.20	

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.36	3.39	
Middle CH	3.51	3.39	PASS
Highest CH	3.54	3.30	

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GSM850 (GSM) GSM1900 (GSM) Lowest Channel Lowest Channel V Offset 15.10 dB AQT 2 ms ● RBW 10 MHz 14.40 dB 2 ms • RBW 10 MHz Date: 19.JUN.2017 19:39:25 Date: 19.JUN.2017 21:24:16 **Middle Channel Middle Channel ₩ ₩** 14.40 dB 2 ms • RBW 10 MHz Samples: 130000 0.1% 0.01% 0.12 dB 0.12 dB 0.01% 0.12 dB Date: 19.JUN.2017 19:39:41 Date: 19.JUN.2017 21:24:37 **Highest Channel Highest Channel** Spectrum

Ref Level 35.00 dBm

Att 30 dB Offset 15.10 dB AQT 2 ms • RBW 10 MHz
 Ref Level
 34.40 dBm
 Offset
 14.40 dB

 Att
 30 dB
 AQT
 2 ms
 ■ RBW
 10 MHz

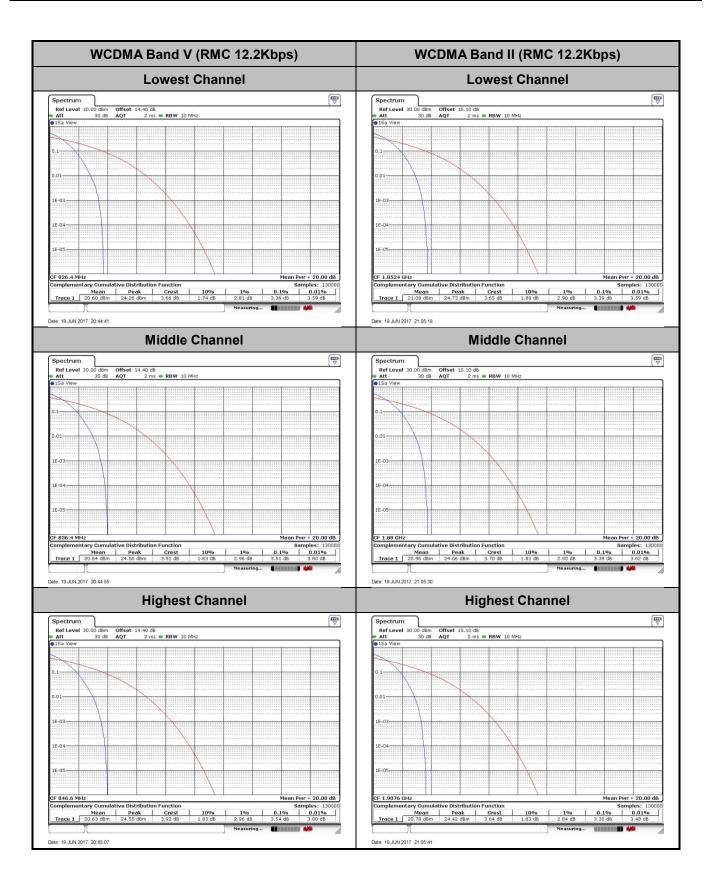
> Samples: 13000 0.1% 0.01% 0.12 dB 0.12 dB

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8amples: 13000 0.1% 0.01%



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26dB Bandwidth

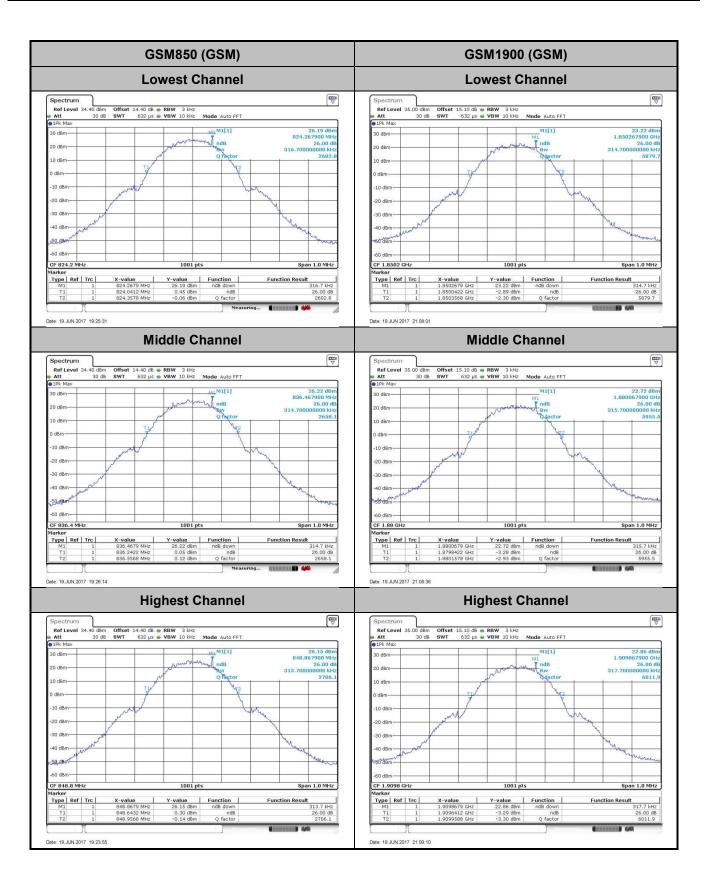
Mode	GSM850(MHz)	GSM1900(MHz)
Mod.	GSM	GSM
Lowest CH	0.317	0.315
Middle CH	0.315	0.316
Highest CH	0.314	0.318

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.65	4.64
Middle CH	4.65	4.65
Highest CH	4.65	4.66

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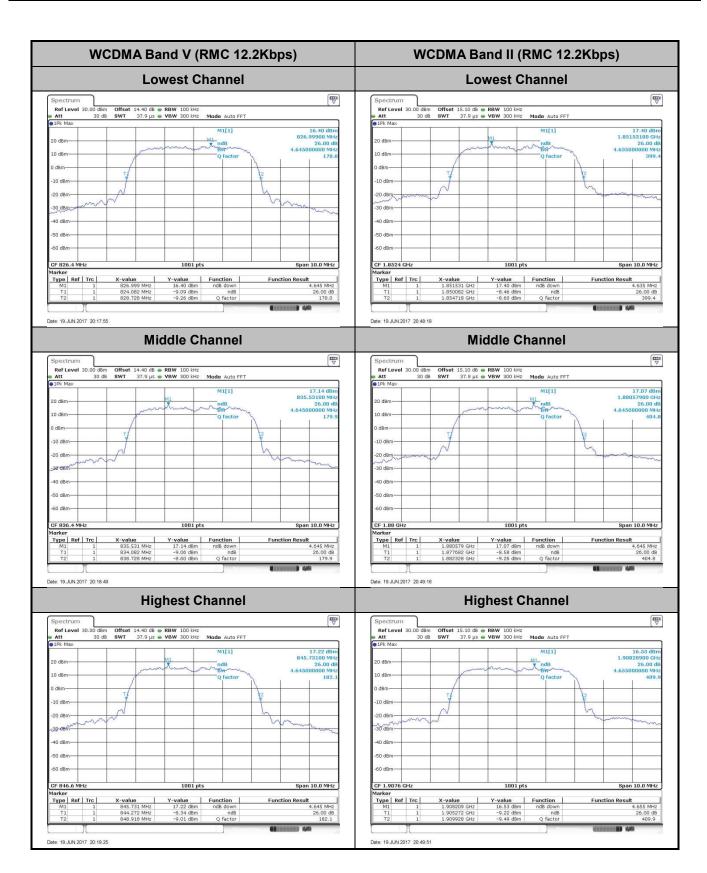
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Occupied Bandwidth

Mode	GSM850(MHz)	GSM1900(MHz)
Mod.	GSM	GSM
Lowest CH	0.244	0.244
Middle CH	0.244	0.243
Highest CH	0.244	0.244

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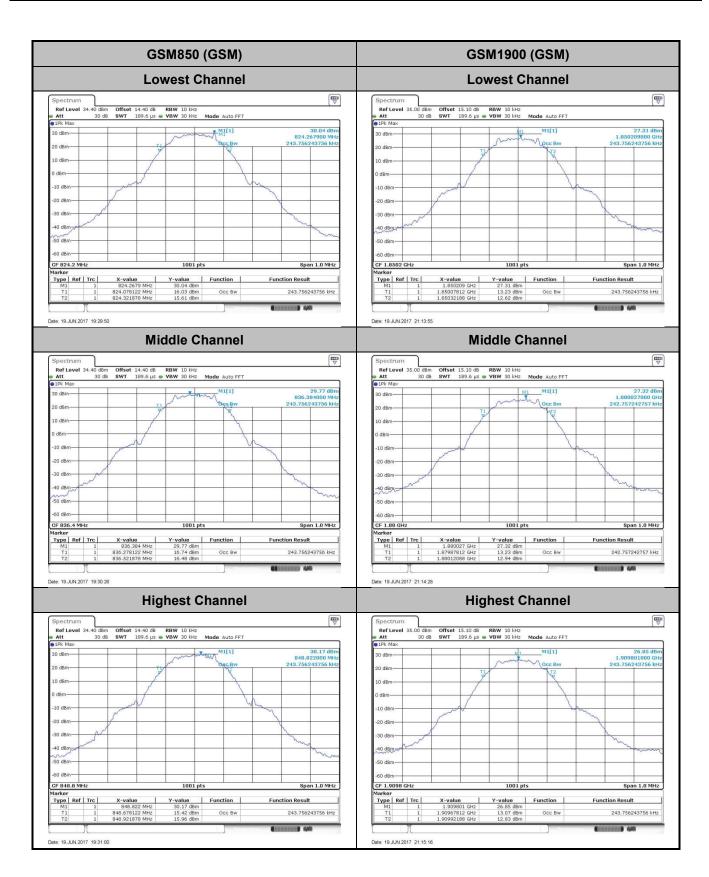
Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.07	4.09
Middle CH	4.10	4.11
Highest CH	4.10	4.10

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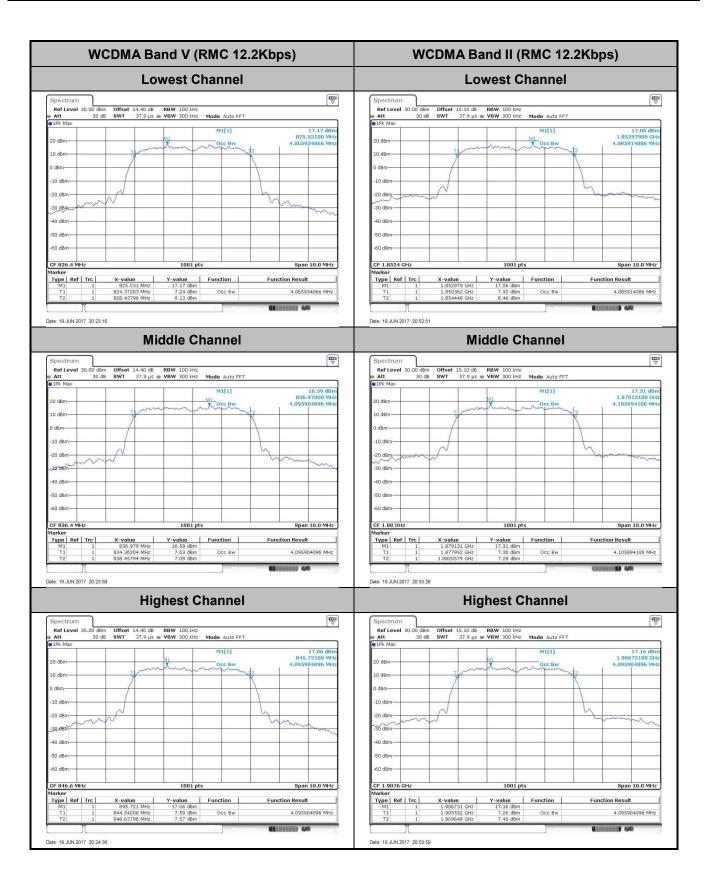
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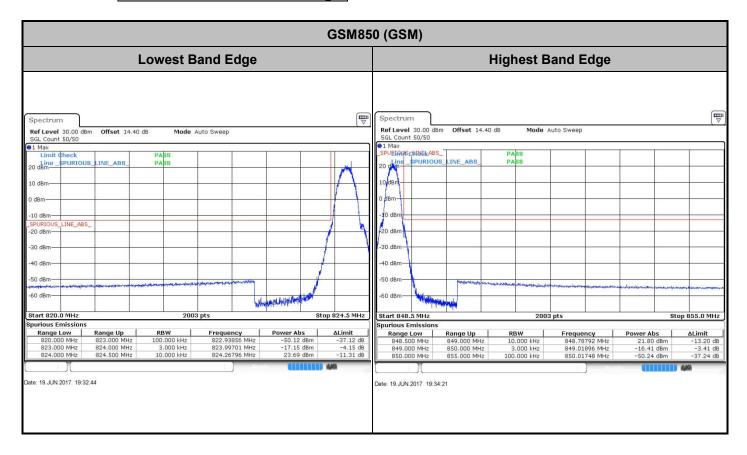


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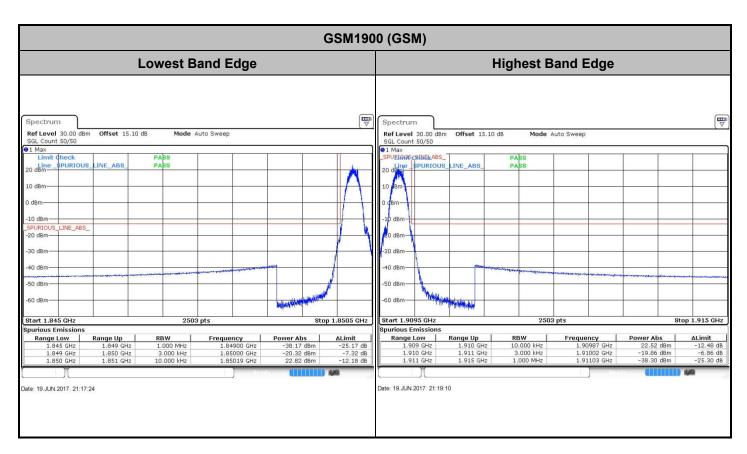
Conducted Band Edge

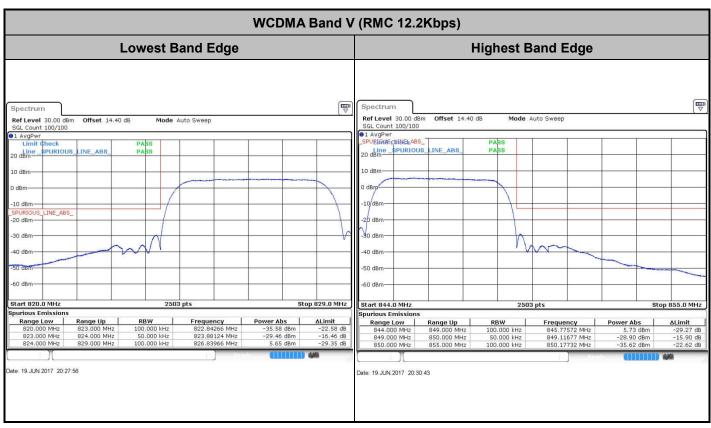


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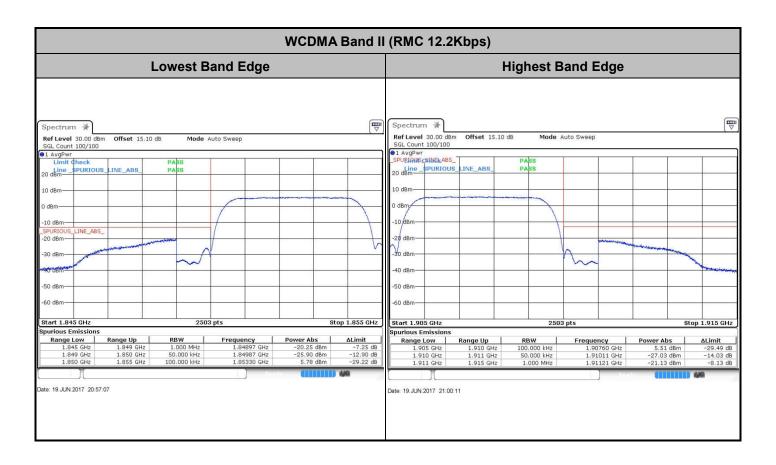


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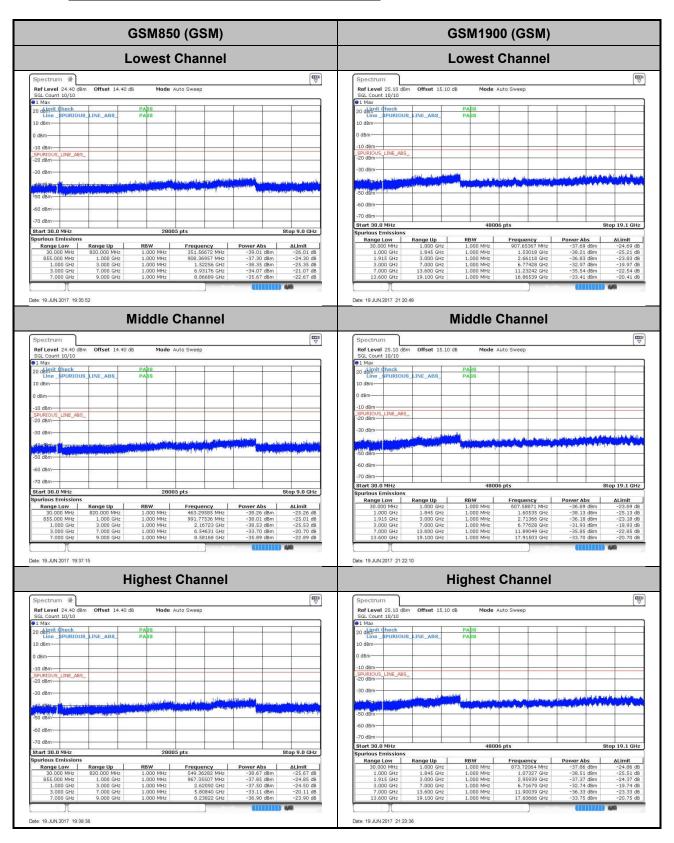
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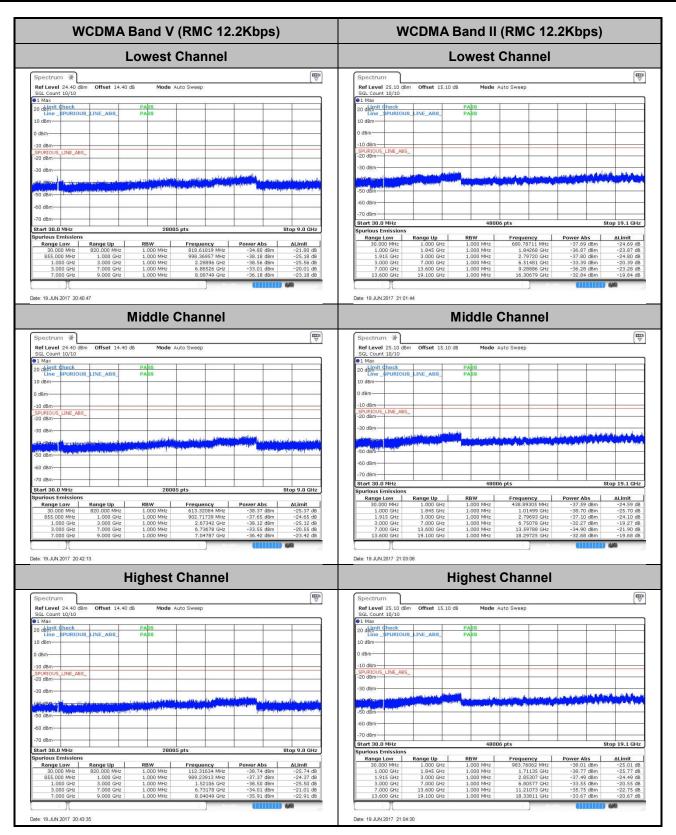
Conducted Spurious Emission



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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0036	
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0084	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0072	PASS
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0096	
20	Battery End Point	0.0072	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4V. ; Maximum Voltage = 4.2V

Test Conditions	Middle Channel	GSM1900 (GSM)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0043	
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0191	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0154	PASS
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0149	
20	Maximum Voltage	0.0138	
20	Normal Voltage	0.0128	
20	Battery End Point	0.0048	

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.2V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	WCDMA Band V	Limit 2.5ppm		
		(RMC 12.2Kbps)			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result		
50	Normal Voltage	0.0012			
40	Normal Voltage	0.0191			
30	Normal Voltage	0.0179			
20(Ref.)	Normal Voltage	0.0000			
10	Normal Voltage	0.0060			
0	Normal Voltage	0.0239			
-10	Normal Voltage	0.0215	PASS		
-20	Normal Voltage	0.0036			
-30	Normal Voltage	0.0155			
20	Maximum Voltage	0.0048			
20	Normal Voltage	0.0203			
20	Battery End Point	0.0143			

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Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4V. ; Maximum Voltage = 4.2V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0043	
-10	Normal Voltage	0.0021	PASS
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0053	
20	Normal Voltage	0.0032	
20	Battery End Point	0.0016	

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4V. ; Maximum Voltage = 4.2V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

	GSM850 (GSM)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1672	-56.91	-13	-43.91	-55.56	-58.77	1.19	5.20	Н	
	2510	-65.38	-13	-52.38	-68.37	-67.60	1.53	5.90	Н	
Middle	3345	-67.15	-13	-54.15	-71.10	-69.94	1.76	6.70	Н	
ivildale	1672	-58.54	-13	-45.54	-56.5	-60.40	1.19	5.20	V	
	2510	-65.54	-13	-52.54	-67.52	-67.76	1.53	5.90	V	
	3345	-64.93	-13	-51.93	-68.25	-67.72	1.76	6.70	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3759	-61.87	-13	-48.87	-65.38	-66.86	1.88	6.87	Н	
	5640	-60.01	-13	-47.01	-68.20	-67.31	2.38	9.68	Н	
Middlo	7520	-61.06	-13	-48.06	-73.09	-70.13	2.74	11.81	Н	
Middle	3759	-56.86	-13	-43.86	-60.65	-61.85	1.88	6.87	V	
	5640	-59.73	-13	-46.73	-68.3	-67.03	2.38	9.68	V	
	7520	-62.95	-13	-49.95	-73.66	-72.02	2.74	11.81	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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	WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1672	-67.60	-13	-54.60	-66.23	-69.46	1.19	5.20	Н	
	2510	-65.32	-13	-52.32	-68.31	-67.54	1.53	5.90	Н	
Middle	3345	-67.36	-13	-54.36	-71.31	-70.15	1.76	6.70	Н	
Middle	1672	-68.12	-13	-55.12	-66.08	-69.98	1.19	5.20	V	
	2510	-66.71	-13	-53.71	-68.69	-68.93	1.53	5.90	V	
	3345	-67.59	-13	-54.59	-70.91	-70.38	1.76	6.70	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3759	-66.09	-13	-53.09	-69.60	-71.08	1.88	6.87	Н	
	5640	-57.37	-13	-44.37	-65.56	-64.67	2.38	9.68	Н	
Middle	7520	-62.09	-13	-49.09	-74.12	-71.16	2.74	11.81	Н	
Middle	3759	-64.90	-13	-51.90	-68.69	-69.89	1.88	6.87	V	
	5640	-61.64	-13	-48.64	-70.21	-68.94	2.38	9.68	V	
	7520	-64.16	-13	-51.16	-74.87	-73.23	2.74	11.81	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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