FCC RF Test Report

APPLICANT : Planet Avvio LLC EQUIPMENT : Mobile Phone

BRAND NAME : Mint MODEL NAME : M350

MARKETING NAME : Mint M350 FCC ID : 2ALTAM350

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 07, 2017 and testing was completed on May 09, 2017. We, SPORTON International (ShenZhen) 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 (ShenZhen) INC., the test report shall not be reproduced except in full.

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SPORTON International (ShenZhen) INC.

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Report Template No.: BU5-FG22/24 Version 1.2

Testing Laboratory 2353

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG740704	Rev. 01	Initial issue of report	May 12, 2017
FG740704	Rev. 02	Update report for Model Name from Mint M350 to M350.	May 16, 2017

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark	
3.4	§2.1046	Conducted Output Power	Reporting Only	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 Temperature &	< 2.5 ppm for Part 22	PASS	_	
5.5	§2.1055 §24.235	Voltage	Within Authorized Band	1700		
	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-	
4.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-	
4.5	§2.1053 §22.917(a) §24.238(a) Field Strength of Spurious Radiation		< 43+10log10(P[Watts])	PASS	Under limit 11.04 dB at 3760.000 MHz	

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1 General Description

1.1 Applicant

Planet Avvio LLC

9725 NW 117th Ave., Medley, FL 33178, United States

1.2 Manufacturer

Shenzhen Crave Communication Co., Ltd.

Floor 3, Bldg8, Dongfangming Industrial City, No.83 Dabao Rd.,33 District, Shenzhen, China

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	Mint
Model Name	M350
Marketing Name	Mint M350
FCC ID	2ALTAM350
	GSM/GPRS/EGPRS(Downlink Only)/
ELIT cumparts Badias application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40
	Bluetooth v3.0+EDR/ Bluetooth v4.0 LE
	Conducted: 356287080011730/356287080011748
IMEI Code	Radiation: 356287080012050/356287080012068
	ERP/EIRP: 356287080012019/356287080012027
HW Version	V10A-MB-V1.0
SW Version	Mint-M350-CO-OM-VO4 20170301
EUT Stage	Production Unit

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					
GSM/GPRS/EDGE(Downlink Only):					
850:	824.2 MHz ~ 848.8 MHz				
1900:	1850.2 MHz ~ 1909.8MHz				
WCDMA:					
Band V:	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				
1900:	1930.2 MHz ~ 1989.8 MHz				
WCDMA:					
Band V:	871.4 MHz ~ 891.6 MHz				
Band II:	1932.4 MHz ~ 1987.6 MHz				
GSM/GPRS/EDGE(Downlink Only):					
850:	32.39 dBm				
1900:	30.28 dBm				
WCDMA:					
Band V:	22.70 dBm				
Band II:	21.89 dBm				
PIFA Anten	na				
GSM: GMSK					
EDGE: GMSK / 8PSK (Downlink Only)					
WCDMA: BPSK (Uplink)					
HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)					
HSPA+: 16QAM (Uplink is not supported)					
	GSM/GPF 850: 1900: WCDMA: Band V: Band II: GSM/GPF 850: 1900: WCDMA: Band II: GSM/GPF 850: 1900: WCDMA: Band II: PIFA Anten GSM: GMS GPRS: GM EDGE: GM WCDMA: B HSDPA: QF HSUPA: QF				

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 22	GSM850 GSM	GMSK	0.7295	0.0132 ppm	243KGXW
Part 22	WCDMA Band V RMC 12.2Kbps	BPSK	0.0807	0.0155 ppm	4M16F9W
Part 24	GSM1900 GSM	GMSK	0.9099	0.0163 ppm	243KGXW
Part 24	WCDMA Band II RMC 12.2Kbps	BPSK	0.1486	0.0078 ppm	4M17F9W

1.7 Testing Location

Test Site	SPORTON International (ShenZhen) INC.				
	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District,				
	Shenzhen City, Guangdong Province, China				
Test Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Took Cita No	Sporton Site No.				
Test Site No.	TH01-SZ				

Test Site	SPORTON International (ShenZhen) INC.				
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398				
T40% N-	Sporton Site No.	FCC Registration No.			
Test Site No.	03CH03-SZ	565805			

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

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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

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.

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.

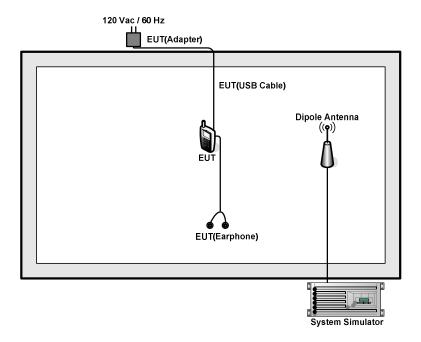
Test modes are chosen to be reported as the worst case configuration below:

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	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 4.0 dB and a 10dB attenuator.

Example:

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

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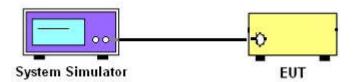
3 Conducted Test Result

3.1 Measuring Instruments

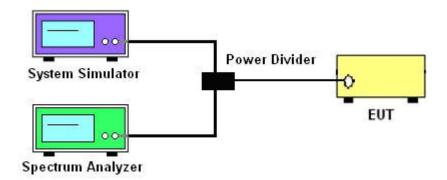
See list of measuring instruments of this test report.

3.2 Test Setup

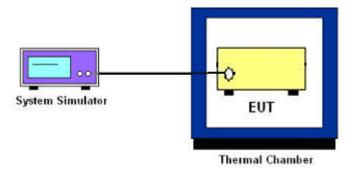
3.2.1 Conducted Output Power



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

3.4.1 Description of the Conducted Output Power

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.

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.
- 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 FCC KDB 971168 D01 v02r02 Section 6.0.
- 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)
 - =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.

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

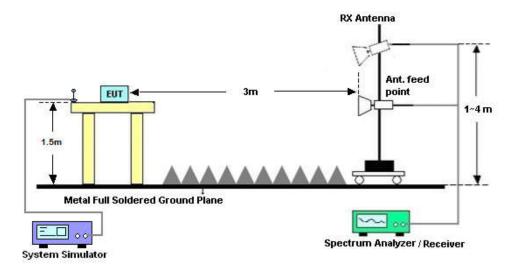
See list of measuring instruments of this test report.

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 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

4.4.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-D-2010, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

4.4.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-D-2010 Section 2.2.17.
- 2. The EUT was placed on a non-conductive rotating platform (0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz) in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
- 3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP = LVL + Correction factor and ERP = EIRP 2.15. Take the record of the output power at substitution antenna.

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	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

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4.5 Field Strength of Spurious Radiation Measurement

4.5.1 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.

4.5.2 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 + 10log(P)] (dBm) [43 + 10log(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	101078	9kHz~40GHz	May 07, 2016	May 04, 2017	May 06, 2017	Conducted (TH01-SZ)
Radio Communication Analyzer	Anritsu	MT8820C	6201563777	2G/3G/4G (CDMA)	Jan. 03, 2017	May 04, 2017	Jan. 02, 2018	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion	LP-150U	H2014081803	-40~+150°C	Jul. 16, 2016	May 04, 2017	Jul. 15, 2017	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 20, 2017	May 09, 2017	Apr. 19, 2018	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	Apr. 20, 2017	May 09, 2017	Apr. 19, 2018	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	May 09, 2017	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jan. 12, 2017	May 09, 2017	Jan. 11, 2018	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 10, 2016	May 09, 2017	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 11, 2016	May 09, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 06, 2017	May 09, 2017	Jan. 05, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 16, 2016	May 09, 2017	Jul. 15, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	May 09, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 09, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 09, 2017	NCR	Radiation (03CH03-SZ)

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	3.0 dB
Confidence of 95% (U = 2Uc(y))	3.0 dB

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

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

Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of	3 0 AD
Confidence of 95% (U = 2Uc(y))	3.8 dB

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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	<mark>32.39</mark>	32.32	32.28	30.28	30.06	29.99
GPRS class 8	32.37	32.31	32.27	30.27	30.04	29.97
GPRS class 10	31.67	31.57	31.53	29.22	29.16	29.03
GPRS class 11	30.10	30.03	29.96	27.33	27.31	27.20
GPRS class 12	29.29	29.25	29.13	26.41	26.39	26.28

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V		WCDMA Band II			
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
AMR 12.2K	22.63	22.68	22.52	21.87	21.69	21.68
RMC 12.2K	22.65	22.70	22.55	21.89	21.72	21.70
HSDPA Subtest-1	21.55	21.60	21.48	21.10	20.93	20.85
HSDPA Subtest-2	21.53	21.59	21.46	21.03	20.92	20.80
HSDPA Subtest-3	21.08	21.16	21.05	20.59	20.43	20.38
HSDPA Subtest-4	21.02	21.13	21.03	20.53	20.42	20.33
HSUPA Subtest-1	19.55	19.68	19.55	19.22	18.97	18.98
HSUPA Subtest-2	19.55	19.72	19.60	19.16	18.92	18.99
HSUPA Subtest-3	20.56	20.68	20.59	20.13	19.93	20.00
HSUPA Subtest-4	19.09	19.16	19.02	18.61	18.44	18.46
HSUPA Subtest-5	21.60	21.80	21.60	21.20	21.00	21.00

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Peak-to-Average Ratio

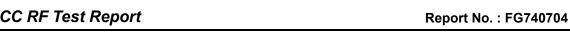
Mode	GSM850(dB)	GSM1900(dB)	Limit: 13dB
Mod.	GSM	GSM	Result
Lowest CH	0.12	0.14	
Middle CH	0.12	0.12	PASS
Highest CH	0.12	0.17	

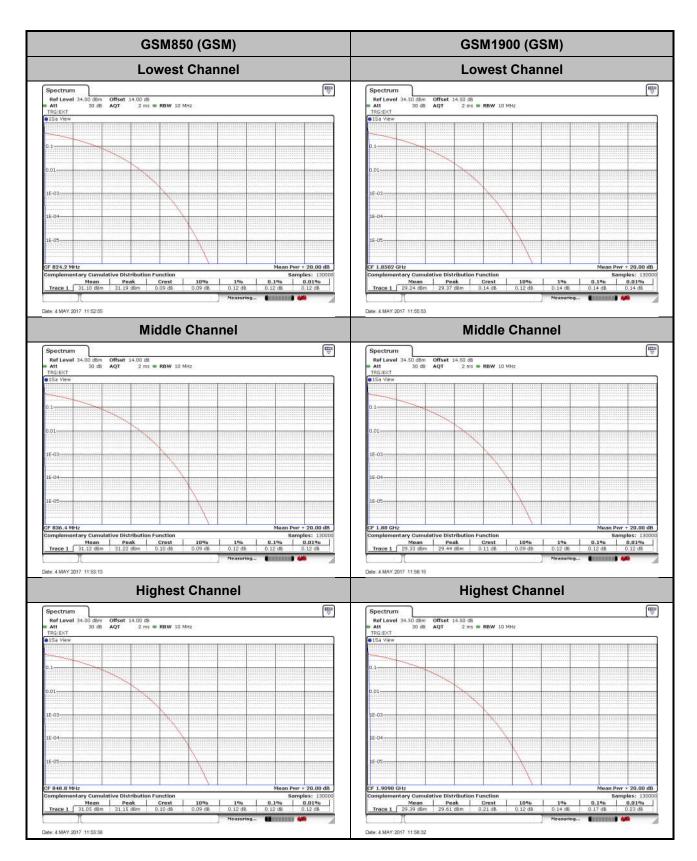
Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.01	3.10	
Middle CH	2.93	3.13	PASS
Highest CH	3.07	2.84	

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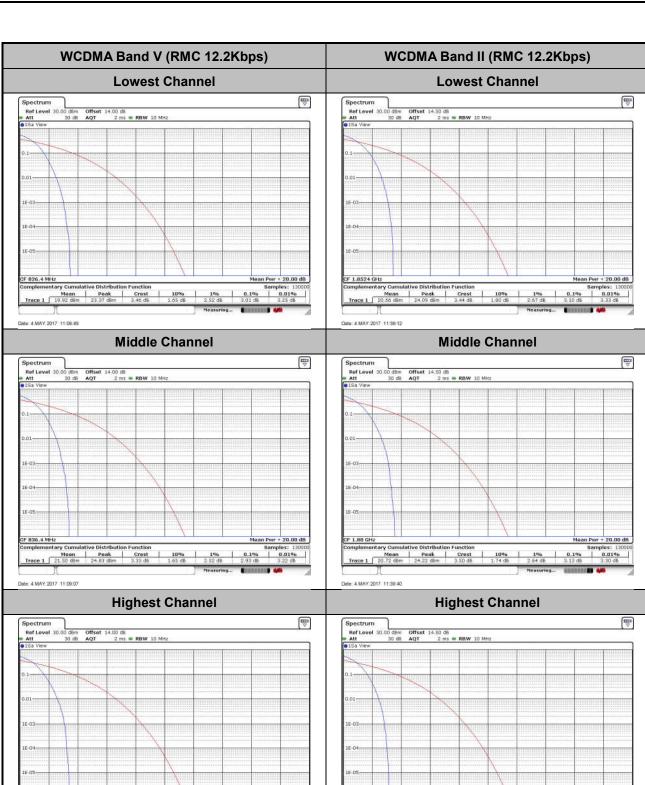
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8amples: 130000 0.1% 0.01% 3.07 dB 3.25 dB

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26dB Bandwidth

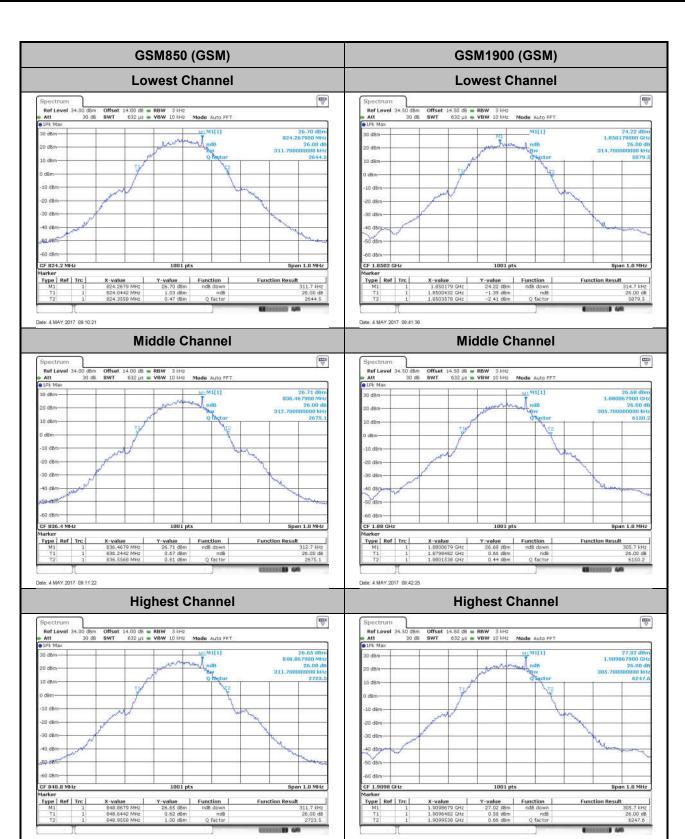
Mode	GSM850(MHz)	GSM1900(MHz)
Mod.	GSM	GSM
Lowest CH	0.312	0.315
Middle CH	0.313	0.306
Highest CH	0.312	0.306

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps RMC 12.2Kbps	
Lowest CH	4.70	4.70
Middle CH	4.67	4.67
Highest CH	4.69	4.69

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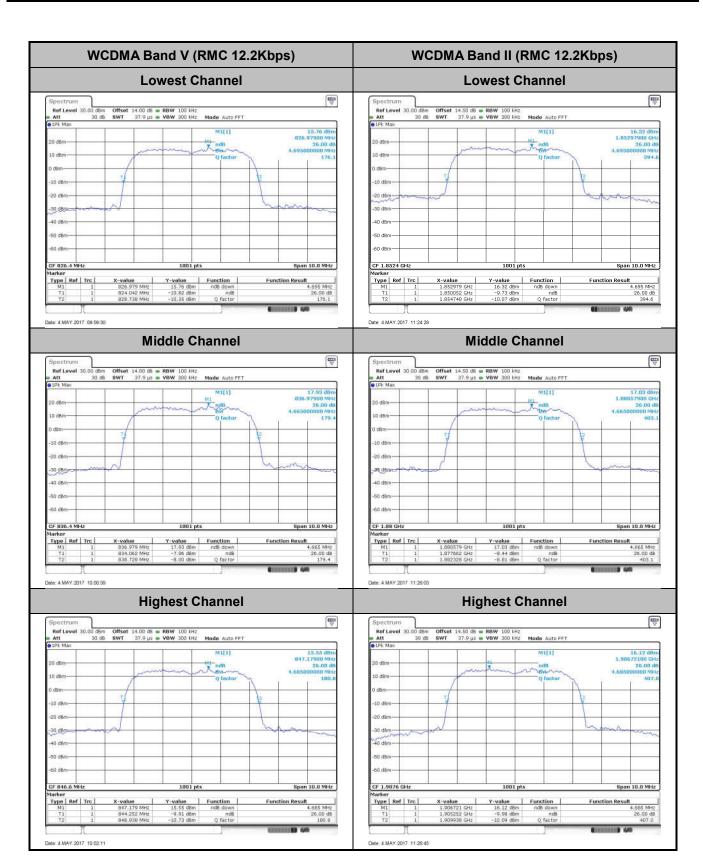
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Occupied Bandwidth

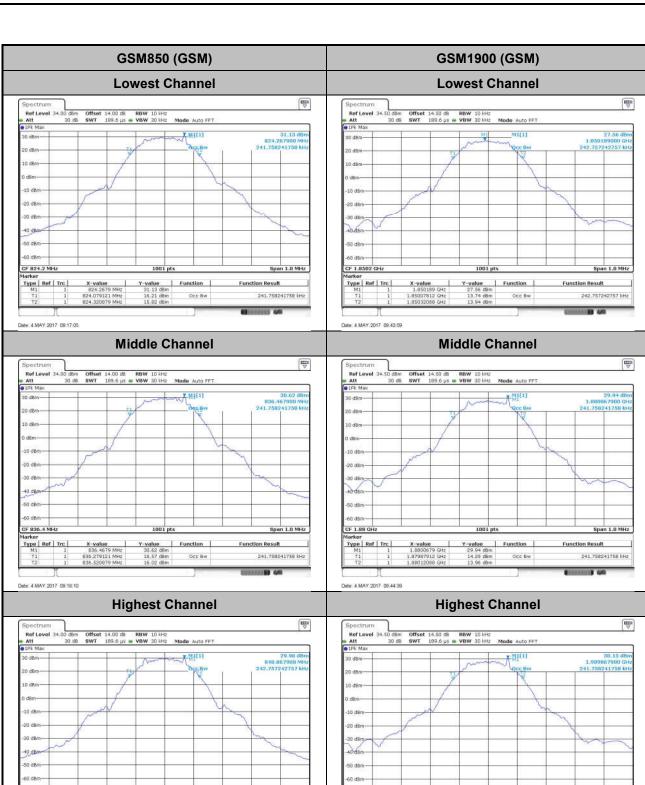
Mode	GSM850(MHz)	GSM1900(MHz)
Mod.	GSM	GSM
Lowest CH	0.242	0.243
Middle CH	0.242	0.242
Highest CH	0.243	0.242

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.15	4.17
Middle CH	4.15	4.16
Highest CH	4.16	4.16

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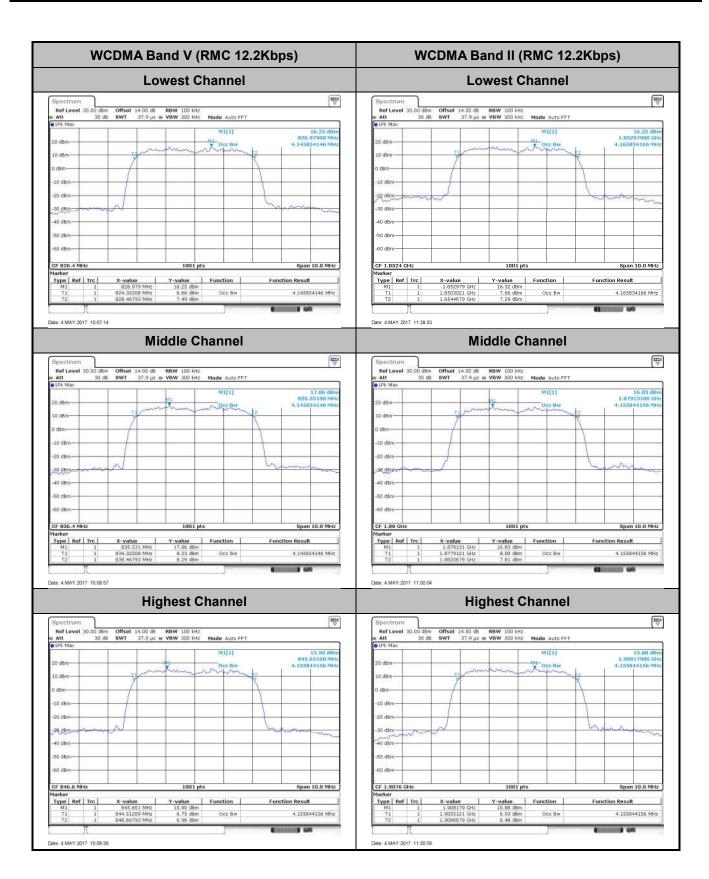


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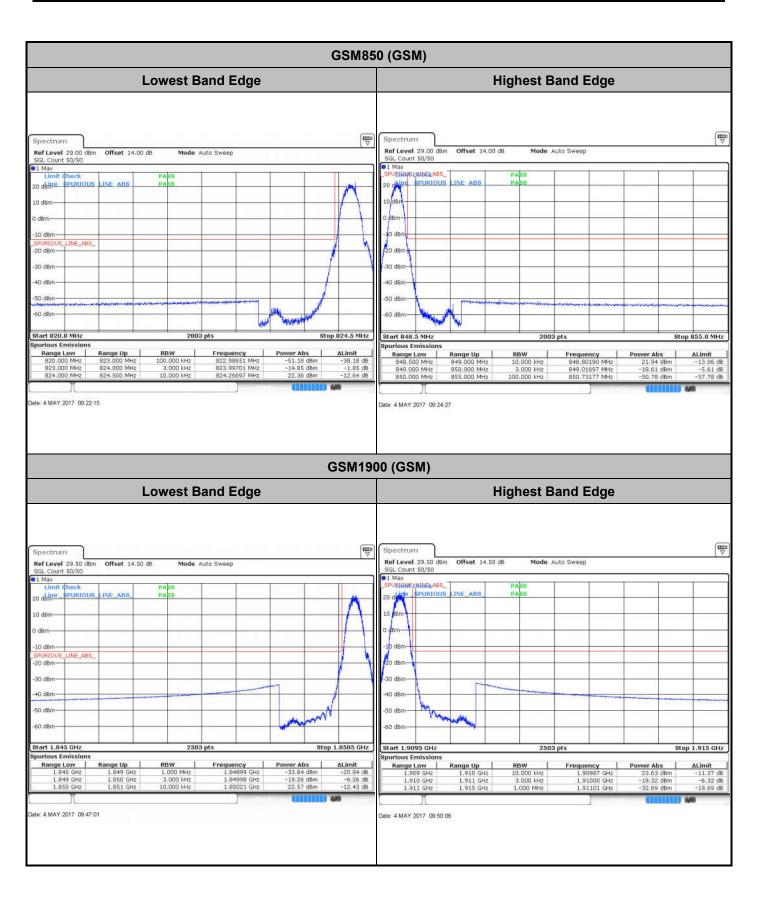
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Conducted Band Edge

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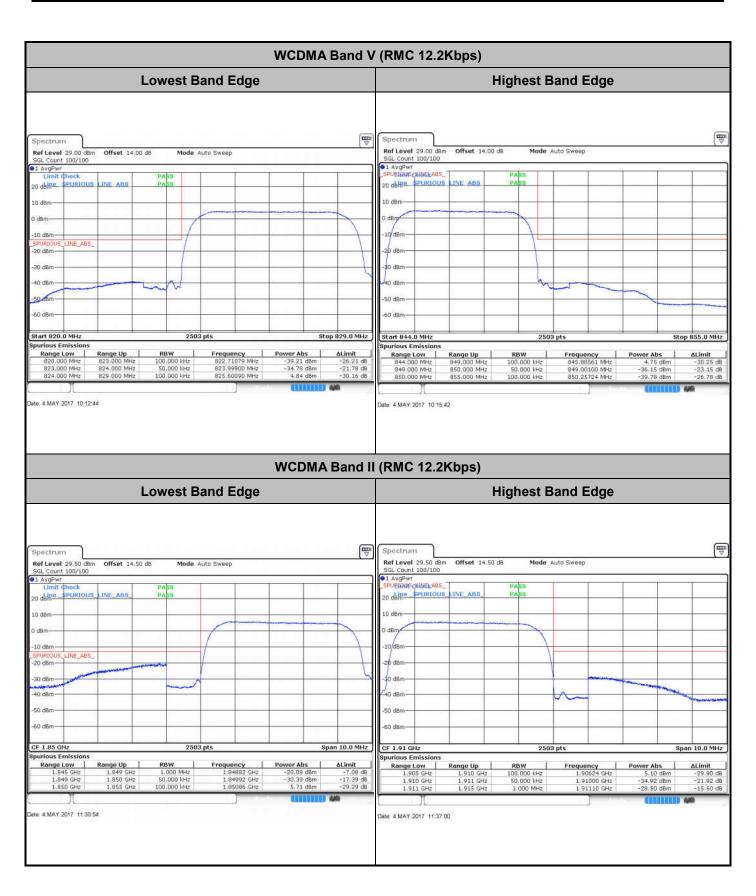
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Conducted Spurious Emission

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GSM850 (GSM) GSM1900 (GSM) Lowest Channel Lowest Channel # ₩ ₩ Ref Level 24.50 dBm SGL Count 10/10 1 Max Start 30.0 MHz Stop 19.1 GHz Stop 9.0 GHz Date: 4 MAY 2017 09:27:54 Date: 4 MAY 2017 09:35:24 **Middle Channel Middle Channel** ₩ ∀ ₩ ∀ Stop 19.1 GHz Start 30.0 MHz Date: 4 MAY 2017 09:29:39 Date: 4 MAY 2017 09:36:49 **Highest Channel Highest Channel** EEEE ₩. SGL Count 10/10 •1 Max

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WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel** E V THE TOTAL PROPERTY. Ref Level 24.50 dBm Offset 14.50 dB SGL Count 10/10 b1 Max Offset 14.00 dB Start 30.0 MHz Stop 19.1 GHz Date: 4 MAY 2017 11:12:57 Date: 4 MAY 2017 11:19:36 **Middle Channel Middle Channel** ₩ ∀ E ∀ Start 30.0 MHz Date: 4 MAY 2017 11:14:23 Date: 4 MAY 2017 11:21:08 **Highest Channel Highest Channel** (□ (High SGL Count 10/10 •1 Max

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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	0.0130	
40	Normal Voltage	0.0071	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0017	PASS
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0108	
20	Maximum Voltage	0.0132	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Test Conditions	Middle Channel	GSM1900 (GSM)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0099	
40	Normal Voltage	0.0163	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0089	
0	Normal Voltage	0.0040	
-10	Normal Voltage	0.0110	PASS
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0128	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0085	

Note:

- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V.; Maximum Voltage =4.35 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

SPORTON International (ShenZhen) INC.

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Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0076	
40	Normal Voltage	0.0113	
30	Normal Voltage	0.0134	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0058	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0072	PASS
-20	Normal Voltage	0.0080	
-30	Normal Voltage	0.0100	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0155	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0030	
40	Normal Voltage	0.0053	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0068	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0078	PASS
-20	Normal Voltage	0.0060	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V.; Maximum Voltage =4.35 V
- 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

ERP/EIRP

Channel	Mode	Horiz	ontal	Vertical		
Chamilei	Wiode	ERP(dBm) ERP(W)		ERP(dBm)	ERP(W)	
Lowest	CCMOEO	28.02	0.6339	17.68	0.0586	
Middle	GSM850 GSM	28.36	0.6855	18.46	0.0701	
Highest		28.63	0.7295	18.83	0.0764	
Lowest	WCDMA Band V RMC 12.2Kbps	18.21	0.0662	7.86	0.0061	
Middle		18.21	0.0662	7.86	0.0061	
Highest		19.07	0.0807	9.39	0.0087	
Limit	ERP < 7W	Re	sult	PASS		

Channel	Mode	Horiz	ontal	Vertical		
	Wiode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	GSM1900 GSM	28.76	0.7516	28.68	0.7379	
Middle		29.59	0.9099	29.37	0.8650	
Highest		29.38	0.8670	29.54	0.8995	
Lowest	WCDMA Band II RMC 12.2Kbps	20.47	0.1114	20.31	0.1074	
Middle		21.72	0.1486	21.60	0.1445	
Highest		21.38	0.1374	21.55	0.1429	
Limit	EIRP < 2W	Re	sult	PASS		

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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	-45.74	-13	-32.74	-50.11	-50.11	2.88	9.40	Н	
	2510	-35.32	-13	-22.32	-46.05	-41.27	2.50	10.60	Н	
	3346	-28.89	-13	-15.89	-40.26	-34.71	4.63	12.60	Н	
	4182	-36.74	-13	-23.74	-50.98	-42.17	5.02	12.60	Н	
	5018	-43.05	-13	-30.05	-57.73	-47.35	6.25	12.70	Н	
	5854	-52.26	-13	-39.26	-65.01	-54.11	9.00	13.00	Н	
Middle	6691	-44.85	-13	-31.85	-60.73	-44.89	9.51	11.70	Н	
ivildale	1672	-46.76	-13	-33.76	-50.71	-51.13	2.88	9.40	V	
	2510	-48.94	-13	-35.94	-56.83	-54.89	2.50	10.60	V	
	3346	-34.70	-13	-21.70	-45.82	-40.52	4.63	12.60	V	
	4182	-36.86	-13	-23.86	-51.06	-42.29	5.02	12.60	V	
	5018	-32.65	-13	-19.65	-49.93	-36.95	6.25	12.70	V	
	5854	-55.62	-13	-42.62	-69.10	-57.47	9.00	13.00	V	
	6691	-47.52	-13	-34.52	-63.65	-47.56	9.51	11.70	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)	
	3760	-33.63	-13	-20.63	-49.33	-41.21	5.02	12.60	Н	
	5640	-40.62	-13	-27.62	-57.22	-46.42	7.30	13.10	Н	
	7520	-40.91	-13	-27.91	-60.89	-44.48	7.73	11.30	Н	
	9400	-36.43	-13	-23.43	-61.15	-40.21	8.12	11.90	Н	
Middle	11280	-32.90	-13	-19.90	-58.20	-35.56	8.84	11.50	Н	
Middle	3760	-24.04	-13	-11.04	-40.43	-31.62	5.02	12.6	V	
	5640	-41.63	-13	-28.63	-58.16	-47.43	7.30	13.1	V	
	7520	-35.27	-13	-22.27	-56.9	-38.84	7.73	11.3	V	
	9400	-38.20	-13	-25.20	-62.18	-41.98	8.12	11.9	V	
	11280	-37.76	-13	-24.76	-62.07	-40.42	8.84	11.5	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	-50.16	-13	-37.16	-53.32	-54.53	2.88	9.40	Н	
	2510	-53.81	-13	-40.81	-59.87	-59.76	2.5	10.60	Н	
Middle	3346	-57.76	-13	-44.76	-65.76	-63.58	4.63	12.60	Н	
Middle	1672	-57.34	-13	-44.34	-59.18	-61.71	2.88	9.40	V	
	2510	-47.89	-13	-34.89	-56.00	-53.84	2.50	10.60	V	
	3346	-58.34	-13	-45.34	-66.37	-64.16	4.63	12.60	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)		
	3760	-47.71	-13	-34.71	-61.33	-55.29	5.02	12.60	Н		
	5640	-51.17	-13	-38.17	-67.77	-56.97	7.3	13.10	Н		
Middle	7520	-48.73	-13	-35.73	-68.71	-52.30	7.73	11.30	Н		
Middle	3760	-40.98	-13	-27.98	-55.89	-48.56	5.02	12.6	V		
	5640	-50.58	-13	-37.58	-67.11	-56.38	7.3	13.1	V		
	7520	-49.67	-13	-36.67	-69.31	-53.24	7.73	11.3	V		

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

SPORTON International (ShenZhen) INC.

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