FCC RF Test Report

APPLICANT : Sony Mobile Communications Inc. EQUIPMENT : GSM/WCDMA/LTE Phone+Bluetooth,

DTS/UNII a/b/g/n and NFC

BRAND NAME : Sony

FCC ID : PY7-PM0923

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

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 07, 2015 and testing was completed on Dec. 02, 2015. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

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SPORTON INTERNATIONAL INC.

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Report No.: FG500118-01A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG5O0118-01A	Rev. 01	Initial issue of report	Jan. 21, 2016

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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	-
0.0	§2.1055 §22.355	Frequency Stability for	< 2.5 ppm for Part 22	DAGO	
3.9	§2.1055 §24.235	Temperature & Voltage	Within Authorized Band	PASS	-
	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
4.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
\$2.1053 \$22.917(a) \$24.238(a) Field Strength of Spurious Radiation		< 43+10log10(P[Watts])	PASS	Under limit 25.32 dB at 5548.000 MHz	

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1 General Description

1.1 Applicant

Sony Mobile Communications Inc.

Nya Vattentornet, 22188 Lund, Sweden

1.2 Manufacturer

Sony Mobile Communications Inc.

1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan

1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII, a/b/g/n, GPS, and NFC

Product Feature		
Antenna Type	Coupling type (LDS) Antenna	

EUT Information List					
IMEI HW Version		SW Version	S/N	Performed Test Item	
004402455531313	А	33.2.A.0.19	RQ3000DACG	RF conducted measurement ERP/EIRP Test	
004402455531156	455531156		RQ3000DAD6	Radiated Spurious Emission	

Accessory List				
	Model No. : UCH20			
AC Adapter 1	Type No. : AC-0060-US			
	S/N: 1215W43609278 (Radiated Spurious Emission)			
Battery 1	Model No. : LIS1618ERPC			
	Model No. : MH410c			
Earphone	Type No. : AG-1100			
	S/N: 1541A8180036F24 (Radiated Spurious Emission)			
	Model No. : EC803			
USB Cable 1	Type No. : AI-0404			
	S/N: 153812A45005976 (Radiated Spurious Emission)			

Note:

- 1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
- 2. Above the accessories list are used to exercise the EUT during test.
- 3. For other wireless features of this EUT, test report will be issued separately.

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1.4 Modification of EUT

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

1.5 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	0.5672	0.0096 ppm	246KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1263	0.0096 ppm	248KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0616	0.0167 ppm	4M17F9W
Part 24	GSM1900 GPRS class 8	GMSK	1.0262	0.0037 ppm	248KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.3023	0.0053 ppm	250KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2165	0.0122 ppm	4M16F9W

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1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,
Tool Cita Lagation	Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.
Test Site Location	TEL: +886-3-327-3456
	FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
iest olle NO.	TH03-HY

Test Site	SPORTON INTERNATIONAL INC.
	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,
Test Site Location	Taoyuan City, Taiwan (R.O.C.)
rest Site Location	TEL: +886-3-327-0868
	FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
rest offe NO.	03CH10HY

1.7 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:

- 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 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 9000 MHz for GSM850 and WCDMA Band V.
- 2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

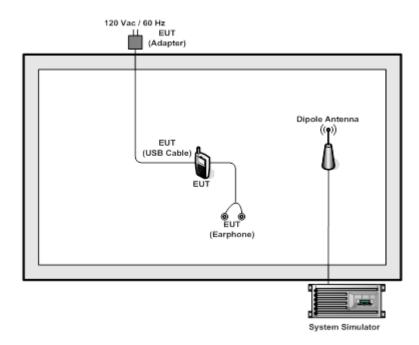
Test modes are chosen to be reported as the worst case configuration below:

	Test Modes					
Band	Radiated TCs	Conducted TCs				
CCM 950	■ GSM Link	■ GSM Link				
GSM 850	■ EDGE class 8 Link	■ EDGE class 8 Link				
CCM 1000	■ GPRS class 8 Link	■ GPRS class 8 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				

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

I	ltem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
ŀ	1.	System Simulator	R&S	CMU 200	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 4.2 dB and a 10dB attenuator.

Example:

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

= 4.2 + 10 = 14.2 (dB)

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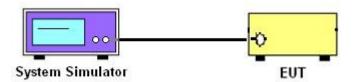
3 Conducted Test Result

3.1 Measuring Instruments

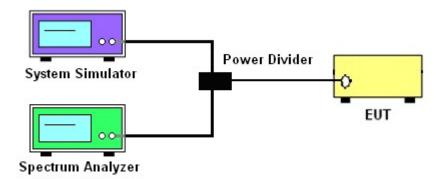
See list of measuring instruments of this test report.

3.2 Test Setup

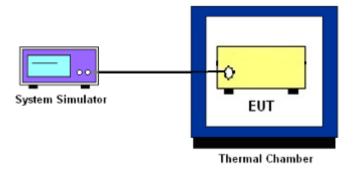
3.2.1 Conducted Output Power



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 25±5° C and connected with the system simulator.
- 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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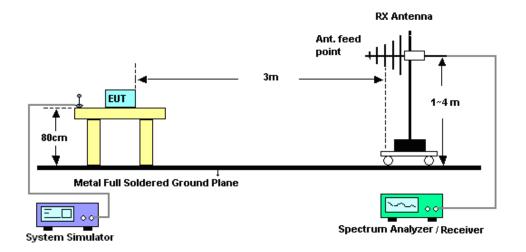
4 Radiated Test Items

4.1 Measuring Instruments

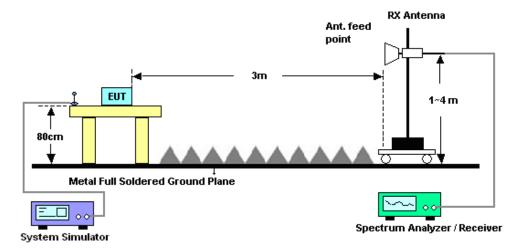
See list of measuring instruments of this test report.

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.
- The EUT was placed on a non-conductive rotating platform 0.8 meters high 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

- 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 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
Hygrometer	Testo	608-H1	34893241	N/A	May 04, 2015	Nov. 04, 2015 ~ Dec. 02, 2015	May 03, 2016	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 24, 2015	Nov. 04, 2015 ~ Dec. 02, 2015	Jun. 23, 2016	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30°C ~70°C	Dec. 01, 2014	Nov. 04, 2015	Nov. 30, 2015	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30°C ~70°C	Nov. 20, 2015	Dec. 02, 2015	Nov. 19, 2016	(TH03-HY)
RF cable	WOKEN	S05	S05-130708-2 2	N/A	Jan. 21, 2015	Nov. 04, 2015 ~ Dec. 02, 2015	Jan. 20, 2016	Conducted (TH03-HY)
Base Station(Measu	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 26, 2015	Nov. 04, 2015 ~ Dec. 02, 2015	Jul. 25, 2016	Conducted (TH03-HY)
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Jun. 01, 2016	(03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 02, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Nov. 03, 2016	(03CH10-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 24, 2014	Nov. 03, 2015 ~ Nov. 07, 2015	Nov. 23, 2015	(03CH10-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 16, 2015	Nov. 17, 2015 ~ Nov. 30, 2015	Nov. 15, 2016	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	Nov. 18, 2015 ~ Nov. 30, 2015	Nov. 16, 2016	Radiation (03CH10-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 15, 2014	Nov. 03, 2015 ~ Nov. 30, 2015	Dec. 14, 2015	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Sep. 30, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Sep. 29, 2016	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 20, 2014	Nov. 03, 2015 ~ Nov. 07, 2015	Nov. 19, 2015	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 13, 2015	Nov. 17, 2015 ~ Nov. 30, 2015	Nov. 12, 2016	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHZ	Oct. 15, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Oct. 14, 2016	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 03, 2015 ~ Nov. 30, 2015	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-450 0-B	N/A	1~4m	N/A	Nov. 03, 2015 ~ Nov. 30, 2015	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0-360 degree	N/A	Nov. 03, 2015 ~ Nov. 30, 2015	N/A	Radiation (03CH10-HY)
Hygrometer	TECPEL	DTM-303B	TP140320	N/A	Nov. 17, 2014	Nov. 03, 2015 ~ Nov. 07, 2015	Nov. 16, 2015	Radiation (03CH10-HY)
Hygrometer	TECPEL	DTM-303B	TP140320	N/A	Nov. 17, 2015	Nov. 17, 2015 ~ Nov. 30, 2015	Nov. 16, 2016	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24958/4,M Y28653/4,MY	25GHz~40GHz	Jan. 13, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Jan. 12, 2016	Radiation (03CH10-HY)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WLKS1200- 8SS	SN3	1.2G Low Pass	Oct. 01, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Sep. 30, 2016	Radiation (03CH10-HY)
Filter	Wainwright	WHK1.5/15 G-10SS	SN32	1.5G High Pass	Oct. 01, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Sep. 30, 2016	Radiation (03CH10-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Oct. 01, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Sep. 30, 2016	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCG824/8 49-40/8SS	SN35	CDMA 850	Oct. 01, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Sep. 30, 2016	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCT1850/ 1910-40/8S	SN21	1900	Oct. 01, 2015	Nov. 03, 2015 ~ Nov. 30, 2015	Sep. 30, 2016	Radiation (03CH10-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	4.9

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

Measuring Uncertainty for a Level of	5.5
Confidence of 95% (U = 2Uc(y))	U.

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

	Co	onducted Po	wer (*Unit: d	Bm)				
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>33.32</mark>	33.13	33.12	30.15	30.18	30.48		
GPRS class 8	33.31	33.13	33.12	30.14	30.17	30.49		
GPRS class 10	29.98	29.95	29.78	26.51	26.52	27.12		
GPRS class 11	28.72	28.66	28.45	24.83	25.05	25.67		
GPRS class 12	27.73	27.68	27.47	24.12	24.34	24.86		
EGPRS class 8	27.26	27.22	27.00	25.52	25.73	25.82		
EGPRS class 10	27.21	27.15	26.97	25.01	25.09	25.26		
EGPRS class 11	27.09	27.07	26.90	24.64	24.86	25.08		
EGPRS class 12	26.57	26.49	26.42	24.37	24.55	24.88		

	C	onducted Po	wer (*Unit: d	Bm)		
Band	W	CDMA Band	V	W	CDMA Band	II
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2K	23.43	23.37	23.50	23.35	<mark>23.54</mark>	23.46
HSDPA Subtest-1	22.44	22.41	22.53	22.35	22.55	22.48
HSDPA Subtest-2	22.42	22.40	22.50	22.31	22.51	22.45
HSDPA Subtest-3	21.89	21.93	21.82	21.98	22.07	22.01
HSDPA Subtest-4	21.85	21.89	21.78	21.92	22.04	21.98
HSUPA Subtest-1	20.46	20.36	20.65	20.39	20.59	20.50
HSUPA Subtest-2	20.46	20.32	20.63	20.42	20.62	20.53
HSUPA Subtest-3	21.58	21.43	21.72	21.44	21.60	21.50
HSUPA Subtest-4	20.10	19.90	20.22	20.00	20.08	20.04
HSUPA Subtest-5	22.44	22.41	22.52	22.38	22.56	22.47

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Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horiz	ontal	Vertical		
Channel	Mode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	CCMOEO	13.62	0.0230	26.26	0.4229	
Middle	GSM850	16.05	0.0403	26.92	0.4921	
Highest	- GSM	16.61	0.0458	27.54	0.5672	
Lowest	0014050	7.24	0.0053	20.18	0.1043	
Middle	GSM850 EDGE class 8	9.69	0.0093	20.46	0.1111	
Highest	EDGE Class 6	9.95	0.0099	21.01	0.1263	
Lowest	WCDMA Band V	5.97	0.0040	16.83	0.0482	
Middle	WCDMA Band V	6.74	0.0047	17.32	0.0540	
Highest	RMC 12.2Kbps	7.09	0.0051	17.90	0.0616	
Limit	ERP < 7W	Re	sult	PASS		

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Channel	Mode	Horiz	ontal	Vert	ical	
Channel	Mode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	GSM1900	25.05	0.3197	28.47	0.7028	
Middle	0.0	24.93	0.3115	28.95	0.7853	
Highest	GPRS class 8	25.37	0.3440	30.11	1.0262	
Lowest	00144000	20.34	0.1080	23.79	0.2393	
Middle	GSM1900 EDGE class 8	19.85	0.0966	23.79	0.2395	
Highest	EDGE Class 6	20.02	0.1004	24.80	0.3023	
Lowest	MODAA Darad II	19.32	0.0855	22.83	0.1919	
Middle	WCDMA Band II	18.76	0.0751	23.27	0.2122	
Highest	RMC 12.2Kbps	18.45	0.0700	23.35	0.2165	
Limit	EIRP < 2W	Re	sult	PASS		

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Radiated Spurious Emission

				GSM85	50 (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)
	1648	-44.71	-13	-31.71	-53.33	-46.47	0.98	4.89	Н
	2472	-52.39	-13	-39.39	-64.45	-54.27	1.28	5.32	Н
Lowest	3296	-59.88	-13	-46.88	-75.43	-63.29	1.54	7.10	Н
Lowest	1648	-46.97	-13	-33.97	-53.6	-48.73	0.98	4.89	V
	2472	-45.68	-13	-32.68	-59.92	-47.56	1.28	5.32	V
	3296	-59.71	-13	-46.71	-74.17	-63.12	1.54	7.10	V
	1672	-45.57	-13	-32.57	-53.92	-47.25	0.99	4.82	Н
	2512	-49.62	-13	-36.62	-61.92	-51.59	1.29	5.41	Н
Middle	3344	-60.09	-13	-47.09	-75.33	-63.7	1.56	7.31	Н
Middle	1672	-49.01	-13	-36.01	-55.21	-50.69	0.99	4.82	V
	2512	-44.33	-13	-31.33	-58.7	-46.3	1.29	5.41	V
	3344	-59.54	-13	-46.54	-73.78	-63.15	1.56	7.31	V
	1696	-50.13	-13	-37.13	-58.61	-51.73	1.00	4.75	Н
	2544	-51.39	-13	-38.39	-64.12	-53.37	1.30	5.44	Н
Llighost	3392	-60.15	-13	-47.15	-75.57	-63.95	1.57	7.52	Н
Highest	1696	-53.44	-13	-40.44	-60.2	-55.04	1.00	4.75	V
	2544	-43.54	-13	-30.54	-57.93	-45.52	1.30	5.44	V
	3392	-60.22	-13	-47.22	-75.08	-64.02	1.57	7.52	V

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

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				GSM850 (E	DGE class 8	3)			
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)
	1648	-43.95	-13	-30.95	-52.57	-45.71	0.98	4.89	Н
	2472	-51.05	-13	-38.05	-63.11	-52.93	1.28	5.32	Н
Lowest	3296	-59.91	-13	-46.91	-75.46	-63.32	1.54	7.10	Н
Lowest	1648	-46.99	-13	-33.99	-53.62	-48.75	0.98	4.89	V
	2472	-46.79	-13	-33.79	-61.03	-48.67	1.28	5.32	V
	3296	-58.69	-13	-45.69	-73.15	-62.1	1.54	7.10	V
	1672	-59.45	-13	-46.45	-54.8	-61.13	0.99	4.82	Н
	2512	-60.60	-13	-47.60	-59.9	-62.57	1.29	5.41	Н
Middle	3344	-72.48	-13	-59.48	-74.72	-76.09	1.56	7.31	Н
Middle	1672	-49.06	-13	-36.06	-55.26	-50.74	0.99	4.82	V
	2512	-44.63	-13	-31.63	-59	-46.6	1.29	5.41	V
	3344	-59.50	-13	-46.50	-73.74	-63.11	1.56	7.31	V
	1696	-49.27	-13	-36.27	-57.75	-50.87	1.00	4.75	Н
	2544	-45.12	-13	-32.12	-57.85	-47.1	1.30	5.44	Н
l limbact	3392	-59.81	-13	-46.81	-75.23	-63.61	1.57	7.52	Н
Highest	1696	-54.28	-13	-41.28	-61.04	-55.88	1.00	4.75	V
	2544	-47.47	-13	-34.47	-59.71	-49.45	1.30	5.44	V
	3392	-61.56	-13	-48.56	-74.27	-65.36	1.57	7.52	V

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				GSM1900 (C	GPRS class	8)			
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)
	3700	-51.27	-13	-38.27	-68.92	-57.84	1.67	8.24	Н
	5548	-38.32	-13	-25.32	-60.99	-45.39	2.65	9.72	Н
Lowoot	7403	-48.02	-13	-35.02	-75.86	-57.17	2.46	11.61	Н
Lowest	3700	-52.67	-13	-39.67	-70.21	-59.24	1.67	8.24	V
	5548	-40.58	-13	-27.58	-61.71	-47.65	2.65	9.72	V
	7403	-44.28	-13	-31.28	-71.33	-53.43	2.46	11.61	V
	3763	-49.48	-13	-36.48	-67.63	-56.11	1.69	8.32	Н
	5639	-44.05	-13	-31.05	-66.77	-51.1	2.71	9.76	Н
Middle	7520	-48.43	-13	-35.43	-76.07	-57.82	2.42	11.81	Н
Middle	3763	-53.43	-13	-40.43	-71.03	-60.06	1.69	8.32	V
	5639	-42.82	-13	-29.82	-64.11	-49.87	2.71	9.76	V
	7520	-47.95	-13	-34.95	-75.21	-57.34	2.42	11.81	V
	3819	-53.80	-13	-40.80	-72.39	-60.48	1.70	8.38	Н
	5730	-43.16	-13	-30.16	-66.28	-50.19	2.76	9.79	Н
l limbac±	7634	-49.08	-13	-36.08	-76.49	-58.57	2.39	11.88	Н
Highest	3819	-53.46	-13	-40.46	-71.15	-60.14	1.70	8.38	V
	5730	-46.12	-13	-33.12	-68.26	-53.15	2.76	9.79	V
	7634	-49.69	-13	-36.69	-76.64	-59.18	2.39	11.88	V

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				GSM1900 (E	EDGE class	8)			
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)
	3700	-52.05	-13	-39.05	-69.7	-58.62	1.67	8.24	Н
	5548	-42.26	-13	-29.26	-64.93	-49.33	2.65	9.72	Н
Lowest	7403	-47.90	-13	-34.90	-75.75	-57.05	2.46	11.61	Н
Lowest	3700	-52.98	-13	-39.98	-70.52	-59.55	1.67	8.24	V
	5548	-41.26	-13	-28.26	-62.39	-48.33	2.65	9.72	V
	7403	-44.97	-13	-31.97	-72.02	-54.12	2.46	11.61	V
	3763	-52.21	-13	-39.21	-70.36	-58.84	1.69	8.32	Н
	5639	-47.34	-13	-34.34	-70.06	-54.39	2.71	9.76	Н
Middle	7520	-49.12	-13	-36.12	-76.76	-58.51	2.42	11.81	Н
Middle	3763	-54.41	-13	-41.41	-72.01	-61.04	1.69	8.32	V
	5639	-45.18	-13	-32.18	-66.47	-52.23	2.71	9.76	V
	7520	-48.82	-13	-35.82	-76.08	-58.21	2.42	11.81	V
	3819	-53.61	-13	-40.61	-72.2	-60.29	1.70	8.38	Н
	5730	-46.84	-13	-33.84	-69.96	-53.87	2.76	9.79	Н
l limbact	7640	-49.28	-13	-36.28	-76.69	-58.78	2.38	11.88	Н
Highest	3819	-52.87	-13	-39.87	-70.56	-59.55	1.70	8.38	V
	5730	-46.18	-13	-33.18	-68.33	-53.21	2.76	9.79	V
	7640	-48.99	-13	-35.99	-75.93	-58.49	2.38	11.88	V

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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)	
Lowest	1648	-64.86	-13	-51.86	-73.48	-66.62	0.98	4.89	Н	
	2472	-62.51	-13	-49.51	-74.57	-64.39	1.28	5.32	Н	
	3296	-59.75	-13	-46.75	-75.3	-63.16	1.54	7.10	Н	
	1648	-66.68	-13	-53.68	-73.31	-68.44	0.98	4.89	V	
	2472	-60.77	-13	-47.77	-75.01	-62.65	1.28	5.32	V	
	3296	-60.95	-13	-47.95	-75.41	-64.36	1.54	7.10	٧	
Middle	1672	-65.03	-13	-52.03	-73.38	-66.71	0.99	4.82	Н	
	2512	-62.28	-13	-49.28	-74.58	-64.25	1.29	5.41	Н	
	3344	-60.15	-13	-47.15	-75.39	-63.76	1.56	7.31	Н	
	1672	-66.99	-13	-53.99	-73.19	-68.67	0.99	4.82	V	
	2512	-60.33	-13	-47.33	-74.7	-62.3	1.29	5.41	V	
	3344	-61.08	-13	-48.08	-75.32	-64.69	1.56	7.31	V	
Highest	1696	-78.13	-13	-65.13	-73.61	-79.73	1.00	4.75	Н	
	2544	-74.85	-13	-61.85	-74.58	-76.83	1.30	5.44	Н	
	3392	-72.74	-13	-59.74	-75.16	-76.54	1.57	7.52	Н	
	1696	-66.66	-13	-53.66	-73.42	-68.26	1.00	4.75	V	
	2544	-60.24	-13	-47.24	-74.63	-62.22	1.30	5.44	V	
	3392	-60.58	-13	-47.58	-75.44	-64.38	1.57	7.52	V	

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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)	
Lowest	3707	-58.08	-13	-45.08	-75.73	-64.66	1.67	8.25	Н	
	5555	-54.86	-13	-41.86	-77.53	-61.93	2.66	9.72	Н	
	7410	-49.12	-13	-36.12	-76.96	-58.28	2.46	11.62	Н	
	3707	-58.40	-13	-45.40	-75.94	-64.98	1.67	8.25	V	
	5555	-56.19	-13	-43.19	-77.32	-63.26	2.66	9.72	V	
	7410	-49.70	-13	-36.70	-76.75	-58.86	2.46	11.62	V	
Middle	3763	-57.70	-13	-44.70	-75.85	-64.33	1.69	8.32	Н	
	5639	-54.26	-13	-41.26	-76.98	-61.31	2.71	9.76	Н	
	7522	-49.29	-13	-36.29	-76.93	-58.68	2.42	11.81	Н	
	3763	-58.28	-13	-45.28	-75.88	-64.91	1.69	8.32	V	
	5639	-55.74	-13	-42.74	-77.03	-62.79	2.71	9.76	V	
	7522	-49.62	-13	-36.62	-76.88	-59.01	2.42	11.81	V	
Highest	3812	-57.26	-13	-44.26	-75.68	-63.93	1.70	8.37	Н	
	5723	-53.80	-13	-40.80	-76.92	-60.84	2.75	9.79	Н	
	7627	-48.94	-13	-35.94	-76.35	-58.43	2.39	11.88	Н	
	3812	-58.25	-13	-45.25	-75.8	-64.92	1.70	8.37	V	
	5723	-54.91	-13	-41.91	-77.05	-61.95	2.75	9.79	V	
	7627	-49.39	-13	-36.39	-76.34	-58.88	2.39	11.88	V	

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