

TEST REPORT

Reference No...... : WTS15S0628457-3E
FCC ID : 2AEE8LAVASTARPLUS
Applicant..... : LAVA INTERNATIONAL (H.K) LIMITED
Address..... : UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST, JORDAN
KL, HK
Manufacturer : The same as above
Address..... : The same as above
Product Name..... : mobile phone
Model No : Star Plus
Brand..... : LAVA
Standards..... : FCC CFR47 Part 22 Subpart H:2014
FCC CFR47 Part 24 Subpart E:2014
Date of Receipt sample : Jun. 24, 2015
Date of Test : Jun. 24 – Jul. 17, 2015
Date of Issue..... : Jul.21, 2015
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Approved by:



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2 Test Summary

| Test Items | Test Requirement | Result |
|--|--------------------------------------|--------|
| RF Output Power | 2.1046 22.913 (a) 24.232 (c) | PASS |
| Peak-to-Average Ratio | 24.232 (d) | PASS |
| Bandwidth | 2.1049 22.905 22.917 24.238 | PASS |
| Spurious Emissions at Antenna Terminal | 2.1051 22.917 (a) 24.238 (a) | PASS |
| Field Strength of Spurious Radiation | 2.1053 22.917 (a) 24.238 (a) | PASS |
| Out of band emission | 22.917 (a) 24.238 (a) | PASS |
| Frequency Stability | 2.1055 22.355 24.235 | PASS |
| Maximum Permissible Exposure (SAR) | 1.1307 2.1093 | PASS |

3 Contents

| | Page |
|--|-----------|
| 1 COVER PAGE..... | 1 |
| 2 TEST SUMMARY | 2 |
| 3 CONTENTS | 3 |
| 4 GENERAL INFORMATION..... | 4 |
| 4.1 GENERAL DESCRIPTION OF E.U.T. | 4 |
| 4.2 DETAILS OF E.U.T. | 4 |
| 4.3 TEST MODE | 6 |
| 4.4 TEST FACILITY..... | 6 |
| 5 EQUIPMENT USED DURING TEST | 7 |
| 5.1 EQUIPMENTS LIST | 7 |
| 5.2 MEASUREMENT UNCERTAINTY | 8 |
| 5.3 TEST EQUIPMENT CALIBRATION | 8 |
| 6 RF OUTPUT POWER | 9 |
| 6.1 EUT OPERATION..... | 9 |
| 6.2 TEST PROCEDURE | 9 |
| 6.3 TEST RESULT | 10 |
| 7 PEAK-TO-AVERAGE RATIO..... | 13 |
| 7.1 EUT OPERATION..... | 13 |
| 7.2 TEST PROCEDURE | 13 |
| 7.3 TEST RESULT | 14 |
| 8 BANDWIDTH..... | 16 |
| 8.1 EUT OPERATION..... | 16 |
| 8.2 TEST PROCEDURE | 16 |
| 8.3 TEST RESULT | 17 |
| 9 SPURIOUS EMISSIONS AT ANTENNA TERMINALS | 25 |
| 9.1 EUT OPERATION..... | 25 |
| 9.2 TEST PROCEDURE | 25 |
| 9.3 TEST RESULT | 26 |
| 10 SPURIOUS RADIATED EMISSIONS..... | 30 |
| 10.1 EUT OPERATION..... | 30 |
| 10.2 TEST SETUP | 30 |
| 10.3 SPECTRUM ANALYZER SETUP | 31 |
| 10.4 TEST PROCEDURE..... | 32 |
| 10.5 SUMMARY OF TEST RESULTS | 33 |
| 11 BAND EDGE MEASUREMENT | 35 |
| 11.1 EUT OPERATION..... | 35 |
| 11.2 TEST PROCEDURE..... | 35 |
| 11.3 TEST RESULT | 36 |
| 12 FREQUENCY STABILITY..... | 42 |
| 12.1 EUT OPERATION..... | 42 |
| 12.2 TEST PROCEDURE..... | 42 |
| 12.3 TEST RESULT | 43 |
| 13 RF EXPOSURE..... | 47 |

4 General Information

4.1 General Description of E.U.T.

| | |
|---------------------|----------------------------|
| Product Name | : mobile phone |
| Model No. | : Star Plus |
| Model Description | : N/A |
| GSM Band(s) | : GSM 850/900/1800/1900MHz |
| GPRS/EGPRS Class | : 12 |
| WCDMA Band(s) | : FDD Band I/II/V |
| LTE Bnad(s) | : LTE Band 2/4/7 |
| Wi-Fi Specification | : 802.11b/g/n HT20/n HT40 |
| Bluetooth Version | : Bluetooth v4.0 with BLE |
| GPS | : Support |
| NFC | : N/A |
| Hardware Version | : V2.0 |
| Software Version | : S101 |

4.2 Details of E.U.T.

| | |
|----------------------|---|
| Operation Frequency | : GSM/GPRS/EGPRS 850: 824~849MHz PCS/GPRS/EGPRS1900: 1850~1910MHz WCDMA Band II: 1850-1910MHz WCDMA Band V: 824~849MHz LTE Band 2: 1850~1910MHz LTE Band 4: 1710~1755MHz LTE Band 7: 2500~2570MHz WiFi: 802.11b/g/n HT20: 2412-2462MHz 802.11n HT40: 2422-2452MHz Bluetooth: 2402-2480MHz |
| Max. RF output power | : GSM 850: 32.67dBm EGPRS 850: 25.96dBm PCS1900:29.66dBm EGPRS 1900:25.78dBm WCDMA Band II: 22.73dBm WCDMA Band V: 22.42dBm LTE Band 2: 23.69dBm LTE Band 4: 23.99dBm LTE Band 7: 23.87dBm WiFi: 9.44dBm Bluetooth: 2.75dBm |

| | |
|----------------------|--|
| Type of Modulation | : GSM,GPRS: GMSK EGPRS: GMSK, 8PSK WCDMA: BPSK LTE: QPSK, 16QAM WiFi: CCK, OFDM Bluetooth: GFSK, Pi/4 DQPSK,8DPSK |
| Antenna installation | : GSM/WCDMA/LTE: internal permanent antenna WiFi/Bluetooth: internal permanent antenna |
| Antenna Gain | : GSM 850: 1.0dBi PCS1900: 1.0dBi WCDMA Band II: 1.0dBi WCDMA Band V: 1.0dBi LTE Band 2: 1.0dBi LTE Band 4: 1.0dBi LTE Band 7: 1.0dBi WiFi: 0dBi Bluetooth: 0dBi |
| Technical Data | :Battery DC 3.8V, 2500mAh DC 5V,1A, Charging form adapter Adapter Input:100-300V~50/60Hz, 0.15A |
| Adapter | :Manufacture: LAVA Model No.: CLV-14 |
| Type of Emission | : GSM850: 248KGXW, PCS1900: 246KGXW EGPRS850:248KG7W,EGPRS1900:245KG7W WCDMA850: 4M26F9W, WCDMA1900: 4M26F9W |

4.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

performing full test, the worst data were observed and reported.

| Support Band | Test Mode | Channel Frequency | Channel Number |
|---------------|-------------------|-------------------|----------------|
| GSM 850 | GSM/GPRS/EGPRS | 824.2 MHz | 128 |
| | | 836.6 MHz | 190 |
| | | 848.8 MHz | 251 |
| PCS 1900 | GSM/GPRS/EGPRS | 1850.2 MHz | 512 |
| | | 1880.0 MHz | 661 |
| | | 1909.8 MHz | 810 |
| WCDMA Band V | WCDMA/HSUPA/HSDPA | 826.4 MHz | 4132 |
| | | 836.6 MHz | 4183 |
| | | 846.6 MHz | 4233 |
| WCDMA Band II | WCDMA/HSUPA/HSDPA | 1852.4MHz | 9262 |
| | | 1880.0MHz | 9400 |
| | | 1907.6MHz | 9538 |

Remark: All mode(s) were tested and the worst data was recorded.

4.4 Test Facility

The test facility has a test site registered with the following organizations:

- IC – Registration No.: 7760A**
 Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, July 12, 2012.
- FCC Test Site 1#– Registration No.: 880581**
 Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.
- FCC Test Site 2#– Registration No.: 328995**
 Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

5 Equipment Used during Test

5.1 Equipments List

| RF Conducted Test | | | | | | |
|---|--|-------------------------|-------------------|------------|-----------------------|----------------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1. | EMC Analyzer (9k~26.5GHz) | Agilent | E7405A | MY45114943 | Aug.15,2014 | Aug.14,2015 |
| 2. | Spectrum Analyzer (9k-6GHz) | R&S | FSL6 | 100959 | Aug.15,2014 | Aug.14,2015 |
| 3. | Humidity Chamber | GF | GTH-225-40-1P | IAA061213 | Aug.15,2014 | Aug.14,2015 |
| 4. | Universal Radio Communication Tester | R&S | CMU 200 | 112461 | Apr.10,2015 | Apr.09,2016 |
| 3m Semi-anechoic Chamber for Radiated Emissions | | | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1 | EMC Analyzer | Agilent | E7405A | MY45114943 | Sep.15,2014 | Sep.14,2015 |
| 2 | Active Loop Antenna | Beijing Dazhi | ZN30900A | - | Sep.15,2014 | Sep.14,2015 |
| 3 | Trilog Broadband Antenna | SCHWARZBECK | VULB9163 | 336 | Apr.18,2015 | Apr.17,2016 |
| 4 | Coaxial Cable (below 1GHz) | Top | TYPE16(13M) | - | Sep.15,2014 | Sep.14,2015 |
| 5 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9120 D | 667 | Apr.18,2015 | Apr.17,2016 |
| 6 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9120 D | 669 | Apr.18,2015 | Apr.17,2016 |
| 7 | Broadband Preamplifier | COMPLIANCE DIRECTION | PAP-1G18 | 2004 | Mar.17,2015 | Mar.16,2016 |
| 8 | Coaxial Cable (above 1GHz) | Top | 1000MHZ- 25GHz | EW02014-7 | Apr.09,2015 | Apr.08,2016 |
| 9 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9170 | 335 | Sep.15,2014 | Sep.14,2015 |
| 10 | Universal Radio Communication Tester | R&S | CMU 200 | 112461 | Apr.10,2015 | Apr.09,2016 |
| 11 | Signal Generator | R&S | SMR20 | 100046 | Sep.15,2014 | Sep.14,2015 |

5.2 Measurement Uncertainty

| Parameter | Uncertainty |
|-----------------------------------|---|
| Radio Frequency | $\pm 1 \times 10^{-6}$ |
| RF Power | ± 1.0 dB |
| RF Power Density | ± 2.2 dB |
| Radiated Spurious Emissions test | ± 5.03 dB (Bilog antenna 30M~1000MHz) |
| | ± 5.47 dB (Horn antenna 1000M~25000MHz) |
| Conducted Spurious Emissions test | ± 3.64 dB (AC mains 150KHz~30MHz) |

5.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6 RF OUTPUT POWER

| | |
|-------------------|---------------------------------------|
| Test Requirement: | FCC Part 2.1046,22.913 (a),24.232 (c) |
| Test Method: | ANSI C63.4:2009, TIA/EIA-603-D:2010 |
| Test Mode: | Transmitting |

6.1 EUT Operation

Operating Environment :

| | |
|-----------------------|-----------|
| Temperature: | 22.5 °C |
| Humidity: | 52.1 % RH |
| Atmospheric Pressure: | 101.2kPa |

6.2 Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

1. The setup of EUT is according with per TIA/EIA Standard 603D and ANSI C63.4 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

6.3 Test Result

| Conducted Power | | | | | | |
|---------------------------------|--------|--------------|-------|--------------|-------|--------|
| GSM - Burst Average Power (dBm) | | | | | | |
| Band | GSM850 | | | PCS1900 | | |
| Channel | 128 | 190 | 251 | 512 | 661 | 810 |
| Frequency (MHz) | 824.2 | 836.6 | 848.8 | 1850.2 | 1880 | 1909.8 |
| GSM | 32.57 | 32.67 | 32.56 | 29.65 | 29.43 | 29.23 |
| GPRS (1 slot) | 32.51 | 32.57 | 32.51 | 29.66 | 29.46 | 29.26 |
| GPRS (2 slots) | 31.64 | 31.67 | 31.43 | 28.78 | 28.69 | 28.61 |
| GPRS (3 slots) | 29.69 | 29.71 | 29.65 | 26.87 | 26.89 | 27.03 |
| GPRS (4 slots) | 28.65 | 28.66 | 28.51 | 25.82 | 25.85 | 25.79 |
| EGPRS (1 slot) | 25.82 | 25.96 | 25.93 | 25.78 | 25.72 | 25.41 |
| EGPRS (2 slots) | 24.80 | 24.93 | 24.93 | 24.80 | 24.83 | 24.55 |
| EGPRS (3 slots) | 22.84 | 22.95 | 22.97 | 22.83 | 22.79 | 22.56 |
| EGPRS (4 slots) | 21.85 | 21.98 | 21.94 | 21.78 | 21.71 | 21.88 |

| WCDMA - Average Power (dBm) | | | | | | |
|-----------------------------|---------------|-------|--------------|--------------|-------|--------------|
| Band | WCDMA Band II | | | WCDMA Band V | | |
| Channel | 9262 | 9400 | 9538 | 4132 | 4183 | 4233 |
| Frequency (MHz) | 1852.4 | 1880 | 1907.6 | 826.4 | 836.6 | 846.6 |
| RMC 12.2k | 22.73 | 22.50 | 22.70 | 22.42 | 22.27 | 22.40 |
| HSDPA Subtest-1 | 21.32 | 21.21 | 21.40 | 21.44 | 21.22 | 21.37 |
| HSDPA Subtest-2 | 21.15 | 20.85 | 20.89 | 21.22 | 20.96 | 21.74 |
| HSDPA Subtest-3 | 20.97 | 20.91 | 21.34 | 20.84 | 21.04 | 21.80 |
| HSDPA Subtest-4 | 21.51 | 21.31 | 21.86 | 21.54 | 21.65 | 20.92 |
| HSUPA Subtest-1 | 21.46 | 21.31 | 21.57 | 21.45 | 21.19 | 21.42 |
| HSUPA Subtest-2 | 20.38 | 21.51 | 21.00 | 21.79 | 20.97 | 21.12 |
| HSUPA Subtest-3 | 21.35 | 21.49 | 21.79 | 21.12 | 21.53 | 21.29 |
| HSUPA Subtest-4 | 21.54 | 21.66 | 21.14 | 21.34 | 20.88 | 20.97 |
| HSUPA Subtest-5 | 21.69 | 21.17 | 21.46 | 21.25 | 21.46 | 21.76 |

Radiated Power(Measured at max. conducted power channel)

ERP and EIRP

Cellular Band (Part 22H)

| Frequency | Receiver Reading | Turn table Angle | RX Antenna | | Substituted | | | Absolute Level | Part 22H Part 24E | |
|----------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|-------------------|--------|
| | | | Height | Polar | SG Level | Cable | Antenna Gain | | Limit | Margin |
| (MHz) | (dBμV) | Degree | (m) | (H/V) | (dBm) | (dB) | (dB) | (dBm) | (dBm) | (dB) |
| GSM 850 Channel 190 | | | | | | | | | | |
| 836.60 | 92.18 | 134 | 1.4 | H | 25.15 | 0.20 | 0.00 | 24.95 | 38.45 | -13.50 |
| 836.60 | 97.49 | 106 | 2.0 | V | 30.39 | 0.20 | 0.00 | 30.19 | 38.45 | -8.26 |
| GPRS 850 Channel 190 | | | | | | | | | | |
| 836.60 | 92.10 | 59 | 2.0 | H | 25.07 | 0.20 | 0.00 | 24.87 | 38.45 | -13.58 |
| 836.60 | 97.85 | 346 | 1.8 | V | 30.75 | 0.20 | 0.00 | 30.55 | 38.45 | -7.90 |
| EDGE 850 Channel 190 | | | | | | | | | | |
| 836.60 | 85.37 | 339 | 1.4 | H | 18.34 | 0.20 | 0.00 | 18.14 | 38.45 | -20.31 |
| 836.60 | 92.65 | 79 | 1.4 | V | 25.55 | 0.20 | 0.00 | 25.35 | 38.45 | -13.10 |

| Frequency | Receiver Reading | Turn table Angle | RX Antenna | | Substituted | | | Absolute Level | Part 22H Part 24E | |
|---------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|-------------------|--------|
| | | | Height | Polar | SG Level | Cable | Antenna Gain | | Limit | Margin |
| (MHz) | (dBμV) | Degree | (m) | (H/V) | (dBm) | (dB) | (dB) | (dBm) | (dBm) | (dB) |
| WCDMA Band V Channel 4132 | | | | | | | | | | |
| 826.40 | 76.41 | 148 | 1.8 | H | 9.38 | 0.20 | 0.00 | 9.18 | 38.45 | -29.27 |
| 826.40 | 84.96 | 288 | 2.0 | V | 17.86 | 0.20 | 0.00 | 17.66 | 38.45 | -20.79 |
| WCDMA Band V HSDPA Channel 4233 | | | | | | | | | | |
| 846.60 | 78.68 | 307 | 1.1 | H | 11.65 | 0.20 | 0.00 | 11.45 | 38.45 | -27.00 |
| 846.60 | 84.63 | 36 | 1.8 | V | 17.53 | 0.20 | 0.00 | 17.33 | 38.45 | -21.12 |
| WCDMA Band V HSUPA Channel 4132 | | | | | | | | | | |
| 826.40 | 78.15 | 67 | 2.0 | H | 11.12 | 0.20 | 0.00 | 10.92 | 38.45 | -27.53 |
| 826.40 | 84.47 | 152 | 1.5 | V | 17.37 | 0.20 | 0.00 | 17.17 | 38.45 | -21.28 |

Cellular Band (Part 24E)

| Frequency | Receiver Reading | Turn table Angle | RX Antenna | | Substituted | | | Absolute Level | Part 22H Part 24E | |
|-----------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|-------------------|--------|
| | | | Height | Polar | SG Level | Cable | Antenna Gain | | Limit | Margin |
| (MHz) | (dBμV) | Degree | (m) | (H/V) | (dBm) | (dB) | (dB) | (dBm) | (dBm) | (dB) |
| PCS 1900 Channel 512 | | | | | | | | | | |
| 1850.20 | 85.71 | 157 | 1.4 | H | 11.74 | 0.31 | 10.40 | 21.83 | 33 | -11.17 |
| 1850.20 | 92.41 | 108 | 1.5 | V | 19.13 | 0.31 | 10.40 | 29.22 | 33 | -3.78 |
| GPRS 1900 Channel 512 | | | | | | | | | | |
| 1850.20 | 85.72 | 196 | 1.7 | H | 11.75 | 0.31 | 10.40 | 21.84 | 33 | -11.16 |
| 1850.20 | 92.80 | 234 | 1.4 | V | 19.52 | 0.31 | 10.40 | 29.61 | 33 | -3.39 |
| EDGE 1900 Channel 512 | | | | | | | | | | |
| 1850.20 | 84.02 | 306 | 2.3 | H | 10.05 | 0.31 | 10.40 | 20.14 | 33 | -12.86 |
| 1850.20 | 88.62 | 63 | 1.8 | V | 15.34 | 0.31 | 10.40 | 25.43 | 33 | -7.57 |

| Frequency | Receiver Reading | Turn table Angle | RX Antenna | | Substituted | | | Absolute Level | Part 22H Part 24E | |
|----------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|-------------------|--------|
| | | | Height | Polar | SG Level | Cable | Antenna Gain | | Limit | Margin |
| (MHz) | (dBμV) | Degree | (m) | (H/V) | (dBm) | (dB) | (dB) | (dBm) | (dBm) | (dB) |
| WCDMA Band II Channel 9262 | | | | | | | | | | |
| 1852.40 | 77.17 | 185 | 2.4 | H | 3.20 | 0.31 | 10.40 | 13.29 | 33 | -19.71 |
| 1852.40 | 84.29 | 203 | 1.1 | V | 11.01 | 0.31 | 10.40 | 21.10 | 33 | -11.90 |
| WCDMA Band II HSDPA Channel 9538 | | | | | | | | | | |
| 1907.60 | 79.52 | 234 | 2.0 | H | 5.79 | 0.32 | 10.40 | 15.87 | 33 | -17.13 |
| 1907.60 | 84.14 | 20 | 1.1 | V | 11.18 | 0.32 | 10.40 | 21.26 | 33 | -11.74 |
| WCDMA Band II HSUPA Channel 9538 | | | | | | | | | | |
| 1907.60 | 78.68 | 236 | 1.7 | H | 4.95 | 0.32 | 10.40 | 15.03 | 33 | -17.97 |
| 1907.60 | 84.70 | 283 | 1.6 | V | 11.74 | 0.32 | 10.40 | 21.82 | 33 | -11.18 |

7 Peak-to-Average Ratio

| | |
|-------------------|--------------|
| Test Requirement: | 24.232 (d) |
| Test Method: | N/A |
| Test Mode: | Transmitting |

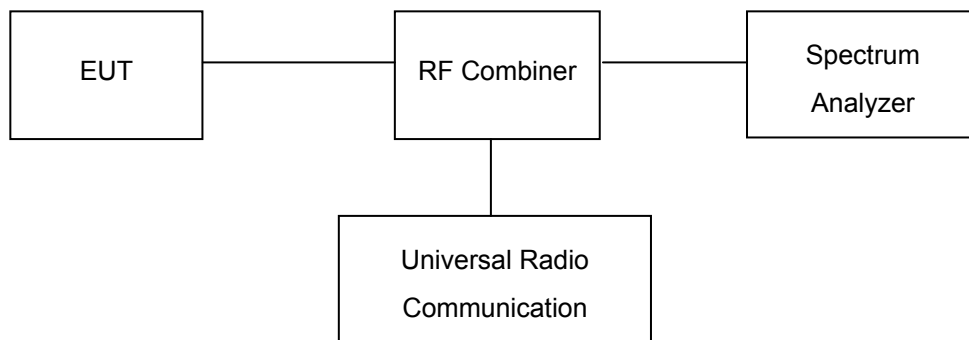
7.1 EUT Operation

Operating Environment :

| | |
|-----------------------|----------|
| Temperature: | 22.5 °C |
| Humidity: | 52.3% RH |
| Atmospheric Pressure: | 101.2kPa |

7.2 Test Procedure

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



7.3 Test Result

Cellular Band (Part 24E)

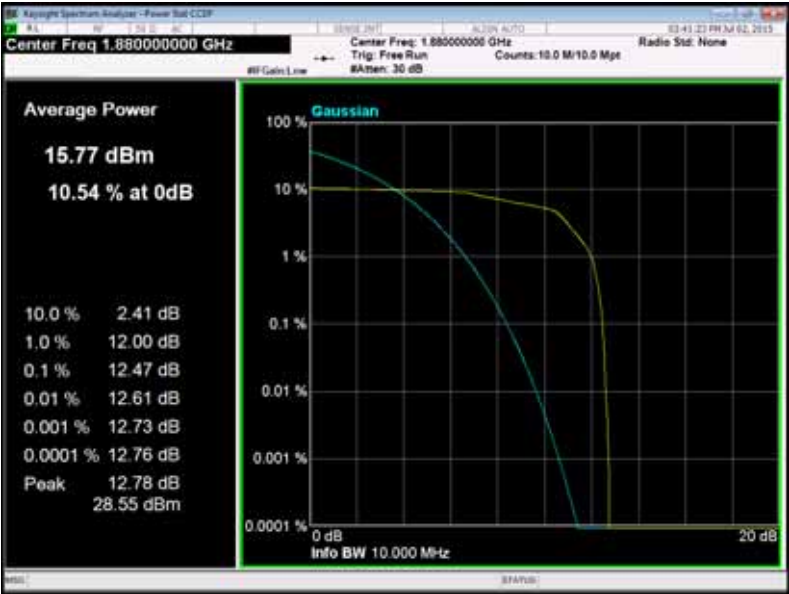
| Mode | PCS 1900 | | | EGPRS 1900 | | | WCDMA Band II | | | Limit (dB) |
|-------------------------------|----------|--------|--------|------------|--------|--------|---------------|--------|--------|---------------|
| Channel | 512 | 661 | 810 | 512 | 661 | 810 | 9262 | 9400 | 9538 | |
| Frequency (MHz) | 1850.2 | 1880.0 | 1909.8 | 1850.2 | 1880.0 | 1909.8 | 1852.4 | 1880.0 | 1907.6 | |
| Peak-to-Average Ratio (dB) | 9.17 | 9.15 | 9.14 | 12.45 | 12.47 | 12.48 | 2.12 | 2.14 | 2.17 | 13 |

Test Plots (Part 24E)

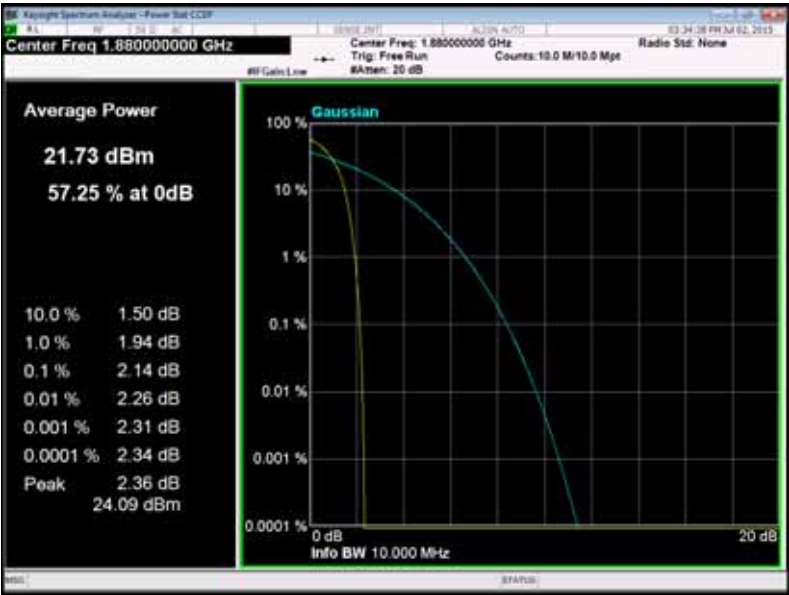
PCS1900 Middle Channel



EGPRS1900 Middle Channel



WCDMA Band II Middle Channel



8 BANDWIDTH

| | |
|-------------------|--------------------------------------|
| Test Requirement: | FCC Part 2.1049,22.917,22.905,24.238 |
| Test Method: | ANSI C63.4:2009, TIA/EIA-603-D:2010 |
| Test Mode: | Transmitting |

8.1 EUT Operation

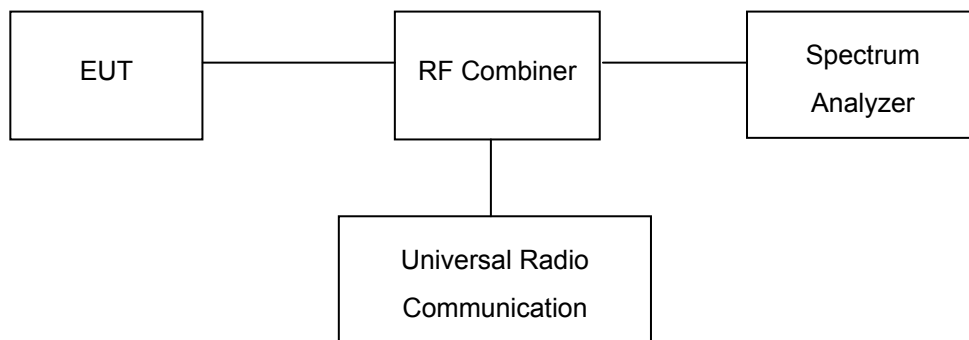
Operating Environment :

| | |
|-----------------------|----------|
| Temperature: | 22.5 °C |
| Humidity: | 52.3% RH |
| Atmospheric Pressure: | 101.2kPa |

8.2 Test Procedure

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 3 kHz (Cellular /PCS) and the 26 dB & 99%bandwidth was recorded.



8.3 Test Result

Cellular Band (Part 22H)

| Test Mode | Channel | Frequency (MHz) | 99% Occupied Bandwidth(kHz) | 26 dB Emission Bandwidth(kHz) |
|-----------|---------|--------------------|--------------------------------|----------------------------------|
| GSM 850 | 128 | 824.2 | 247.49 | 309.62 |
| | 190 | 836.6 | 247.5 | 309.60 |
| | 251 | 848.8 | 247.43 | 309.53 |
| GPRS 850 | 128 | 824.2 | 245.01 | 314.56 |
| | 190 | 836.6 | 245.01 | 314.60 |
| | 251 | 848.8 | 245.07 | 314.66 |
| EGPRS 850 | 128 | 824.2 | 247.57 | 310.95 |
| | 190 | 836.6 | 247.61 | 310.90 |
| | 251 | 848.8 | 247.55 | 310.83 |

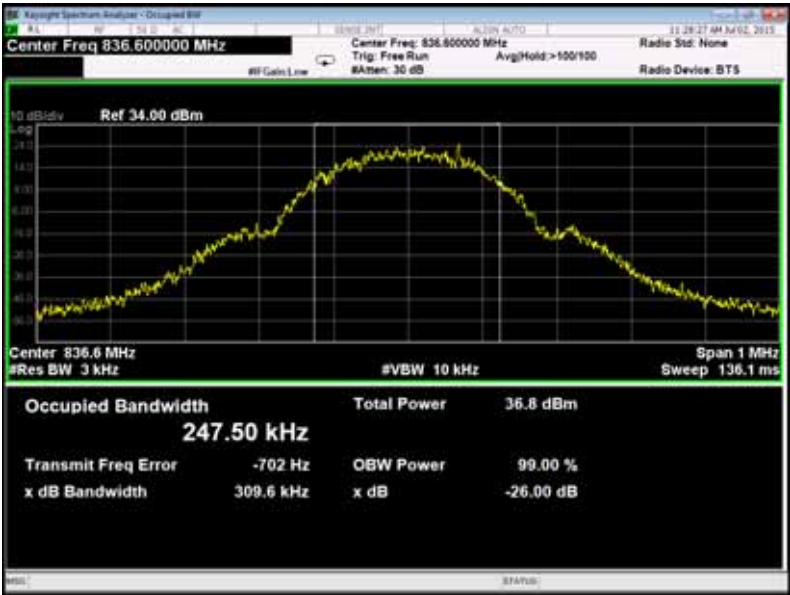
| Test Mode | | Channel | Frequency (MHz) | 99% Occupied Bandwidth(MHz) | 26 dB Emission Bandwidth(MHz) |
|-----------------|--------------|---------|--------------------|--------------------------------|----------------------------------|
| WCDMA Band V | RMC12.2k | 4132 | 826.4 | 4.15 | 4.821 |
| | | 4183 | 836.6 | 4.22 | 4.848 |
| | | 4233 | 846.6 | 4.25 | 4.862 |
| | HSDPA(16QAM) | 4132 | 826.4 | 4.20 | 4.893 |
| | | 4183 | 836.6 | 4.21 | 4.835 |
| | | 4233 | 846.6 | 4.24 | 4.823 |
| | HSUPA(BPSK) | 4132 | 826.4 | 4.26 | 4.805 |
| | | 4183 | 836.6 | 4.21 | 4.816 |
| | | 4233 | 846.6 | 4.15 | 4.774 |

Cellular Band (Part 24E)

| Test Mode | Channel | Frequency (MHz) | 99% Occupied Bandwidth(kHz) | 26 dB Emission Bandwidth(kHz) |
|------------|---------|--------------------|--------------------------------|----------------------------------|
| PCS 1900 | 512 | 1850.20 | 242.27 | 309.7 |
| | 661 | 1880.00 | 242.34 | 309.8 |
| | 810 | 1909.80 | 242.36 | 309.8 |
| GPRS 1900 | 512 | 1850.20 | 246.05 | 314.6 |
| | 661 | 1880.00 | 246.09 | 314.7 |
| | 810 | 1909.80 | 246.13 | 314.6 |
| EGPRS 1900 | 512 | 1850.20 | 245.32 | 305.6 |
| | 661 | 1880.00 | 245.28 | 305.6 |
| | 810 | 1909.80 | 245.24 | 305.5 |

| Test Mode | | Channel | Frequency (MHz) | 99% Occupied Bandwidth(MHz) | 26 dB Emission Bandwidth(MHz) |
|------------------|--------------|---------|--------------------|--------------------------------|----------------------------------|
| WCDMA Band II | RMC12.2k | 9262 | 1852.40 | 4.26 | 4.901 |
| | | 9400 | 1880.00 | 4.22 | 4.907 |
| | | 9538 | 1907.60 | 4.16 | 4.882 |
| | HSDPA(16QAM) | 9262 | 1852.40 | 4.21 | 4.891 |
| | | 9400 | 1880.00 | 4.22 | 4.825 |
| | | 9538 | 1907.60 | 4.17 | 4.884 |
| | HSUPA(BPSK) | 9262 | 1852.40 | 4.16 | 4.922 |
| | | 9400 | 1880.00 | 4.21 | 4.843 |
| | | 9538 | 1907.60 | 4.18 | 4.835 |

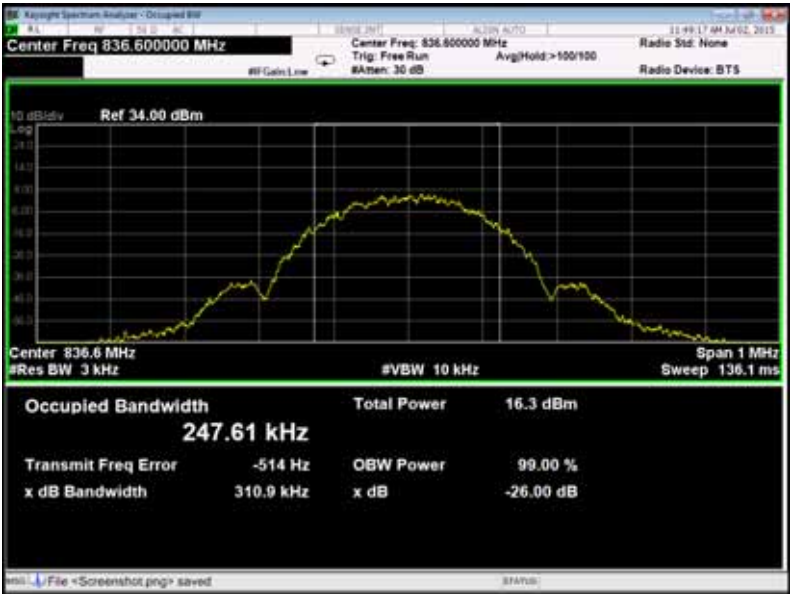
Test Plots
Cellular Band (Part 22H)
GSM 850



GPRS



EGPRS

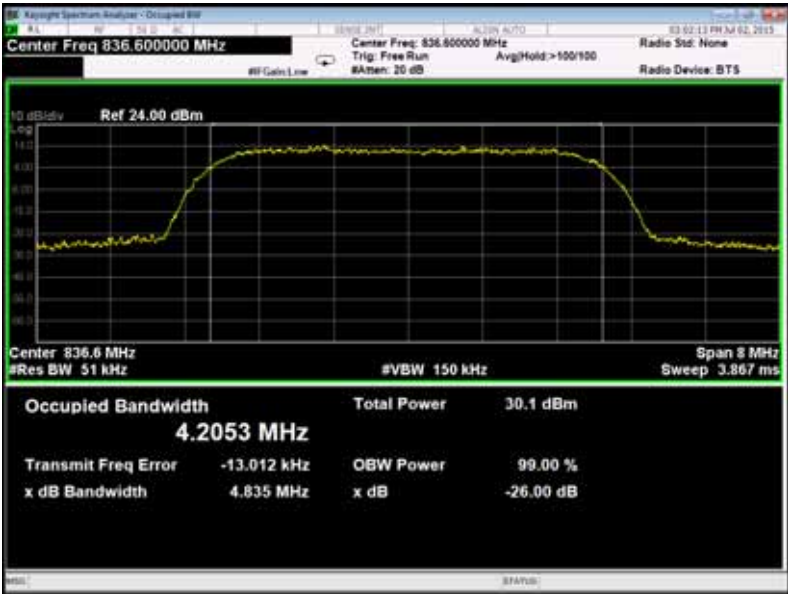


WCDMA band V

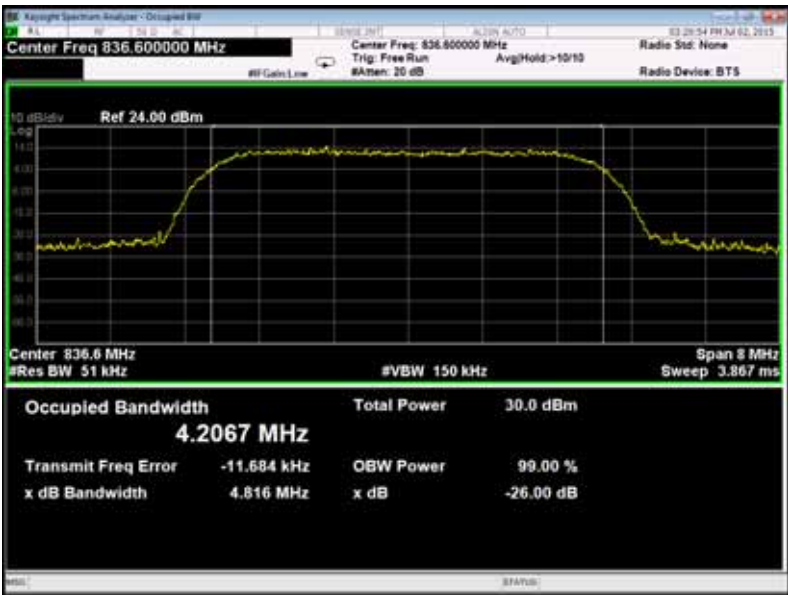
RMC12.2k



HSDPA

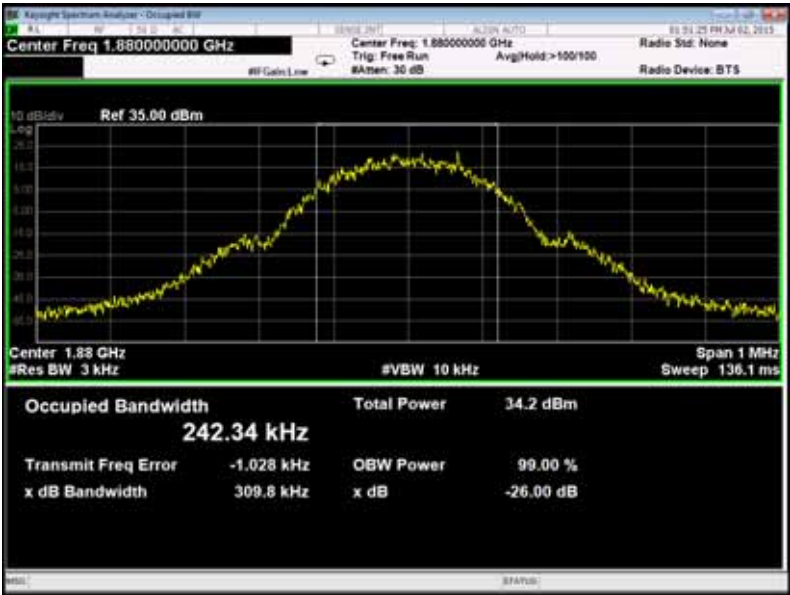


HSUPA

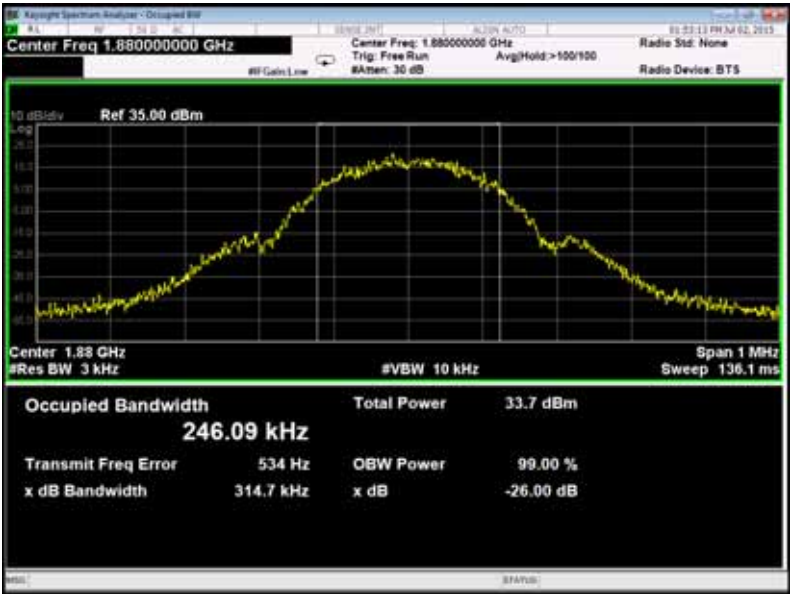


Cellular Band (Part 24E)

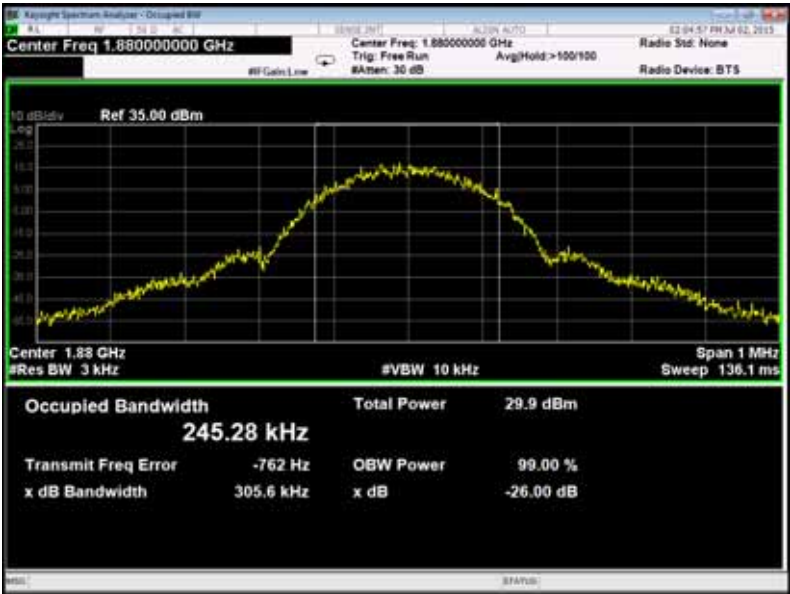
PCS 1900



GPRS

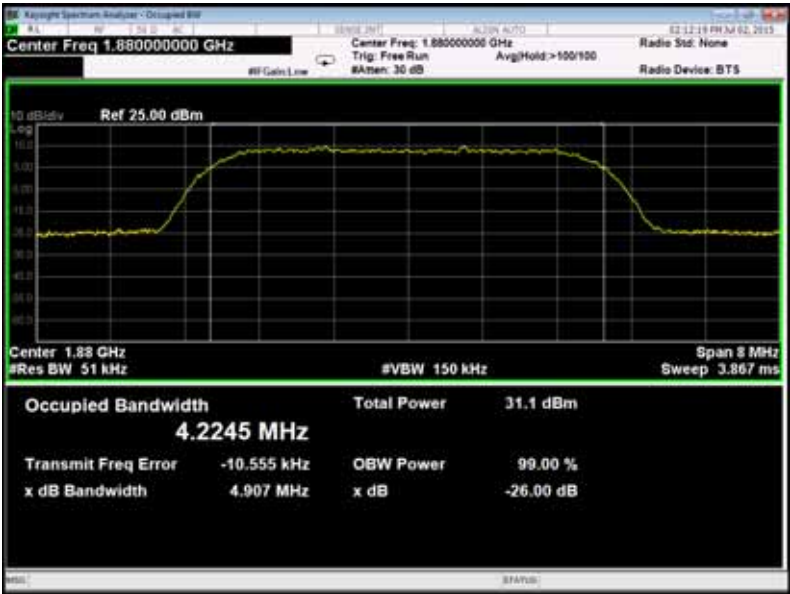


EGPRS

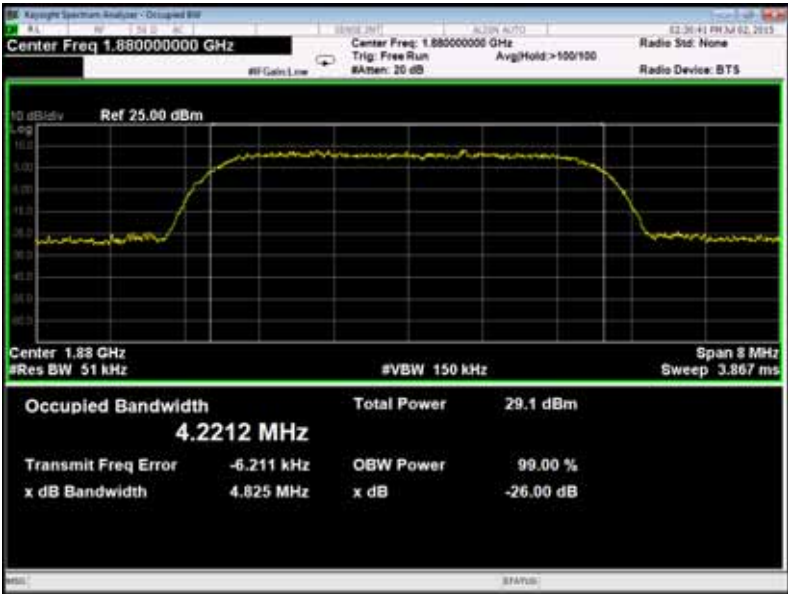


WCDMA band II

RMC12.2k



HSDPA



HSUPA



9 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

| | |
|-------------------|-------------------------------------|
| Test Requirement: | FCC Part 2.1051,22.917(a),24.238(a) |
| Test Method: | ANSI C63.4:2009, TIA/EIA-603-D:2010 |
| Test Mode: | Transmitting |

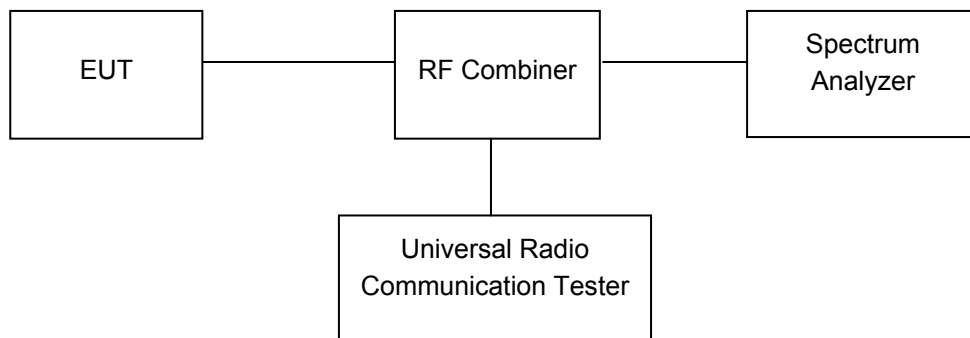
9.1 EUT Operation

Operating Environment :

| | |
|-----------------------|-----------|
| Temperature: | 23.5 °C |
| Humidity: | 52.1 % RH |
| Atmospheric Pressure: | 101.3kPa |

9.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.



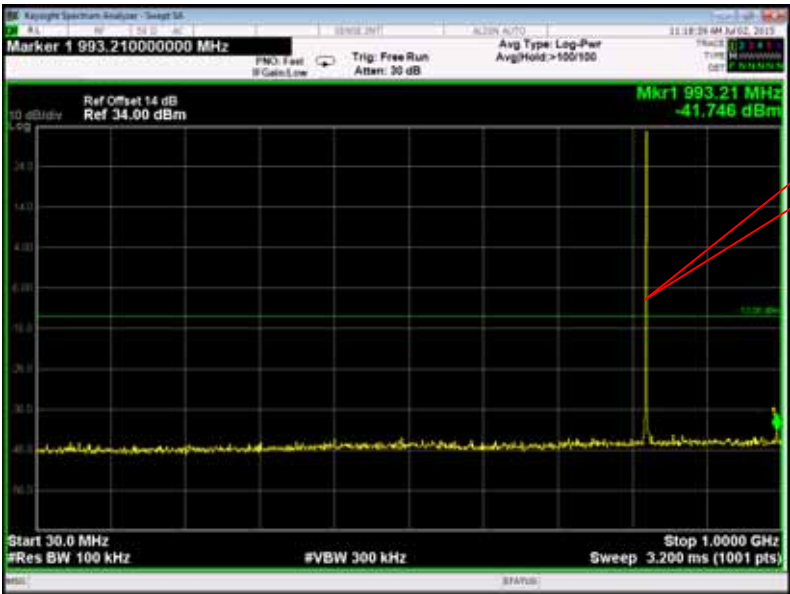
9.3 Test Result

Remark: only the worst data were recorded.

Cellular Band (Part 22H)

GSM 850

30MHz-1GHz

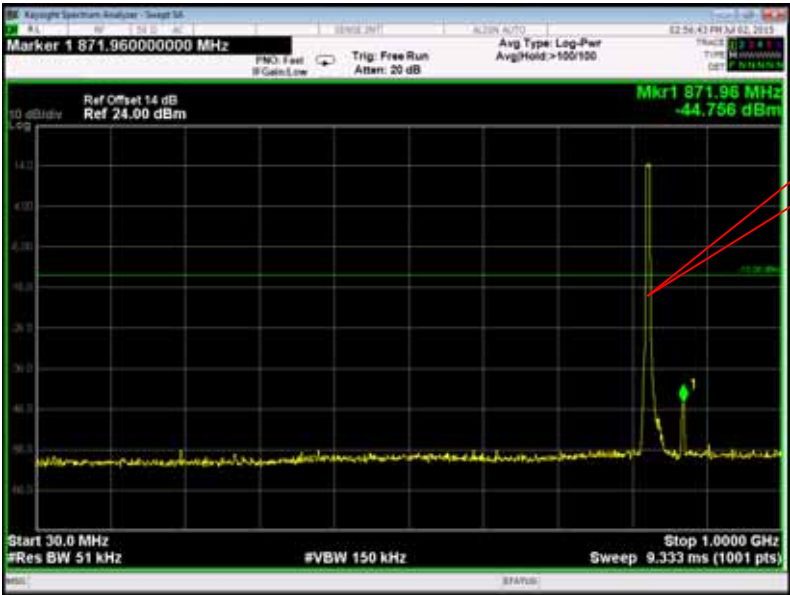


Fundamental

Above 1GHz



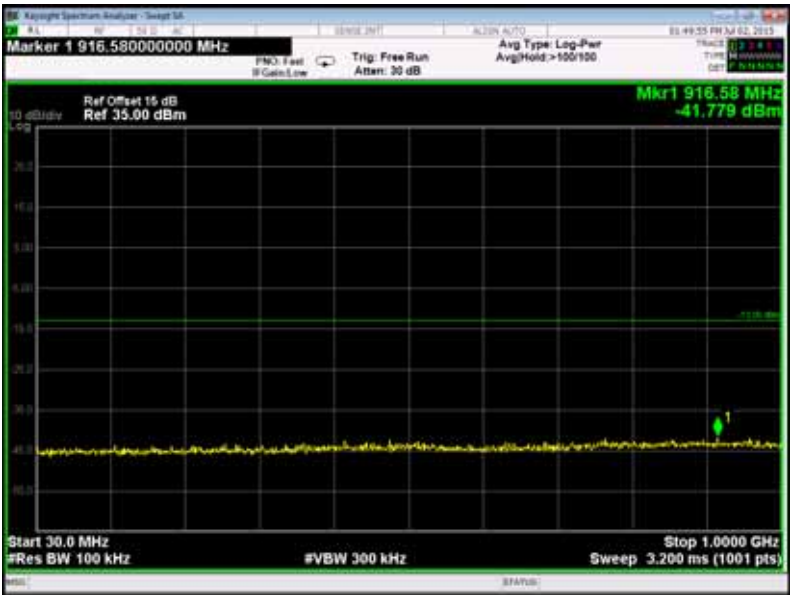
WCDMA band V
30MHz-1GHz



Above 1GHz



Cellular Band (Part 24E)
PCS 1900
30MHz-1GHz

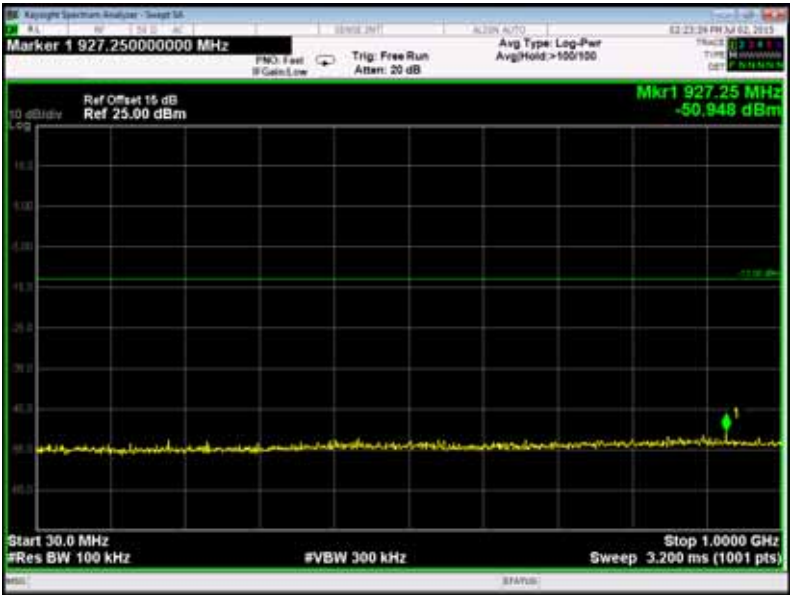


Above 1GHz

Fundamental



WCDMA band II
30MHz-1GHz



Above 1GHz

Fundamental



10 SPURIOUS RADIATED EMISSIONS

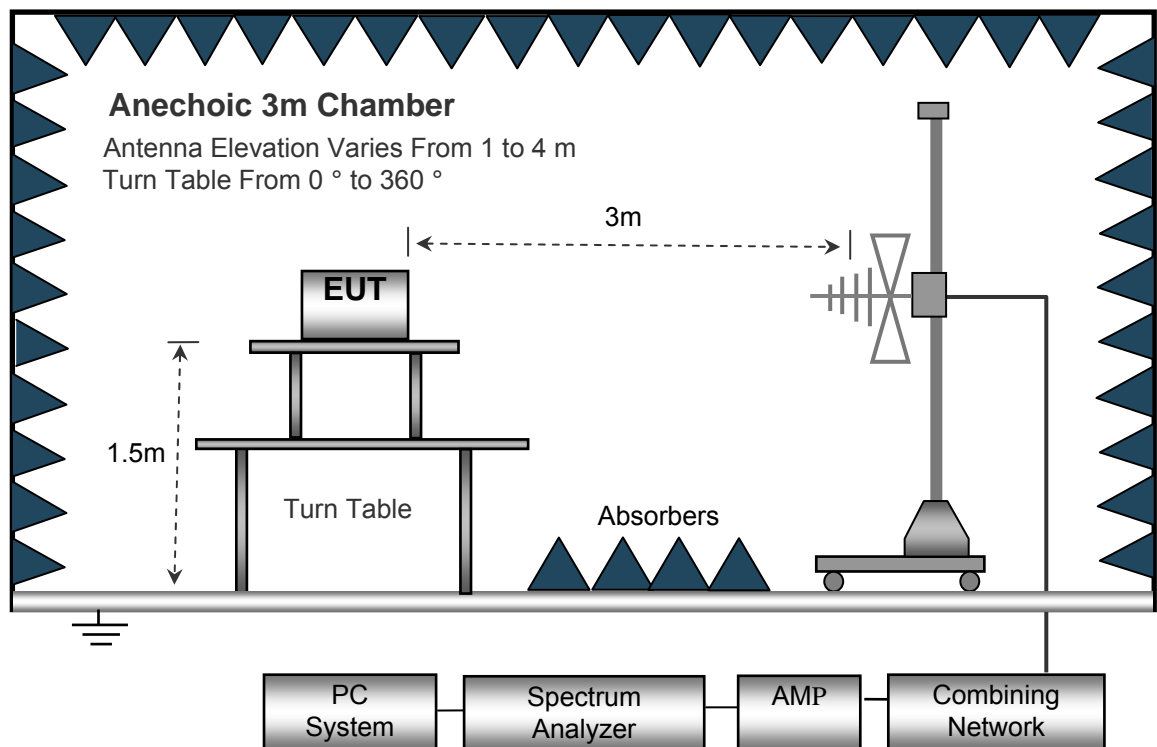
| | |
|-------------------|-------------------------------------|
| Test Requirement: | FCC Part 2.1053,22.917,24.238. |
| Test Method: | ANSI C63.4:2009, TIA/EIA-603-D:2010 |
| Test Mode: | Transmitting |

10.1 EUT Operation

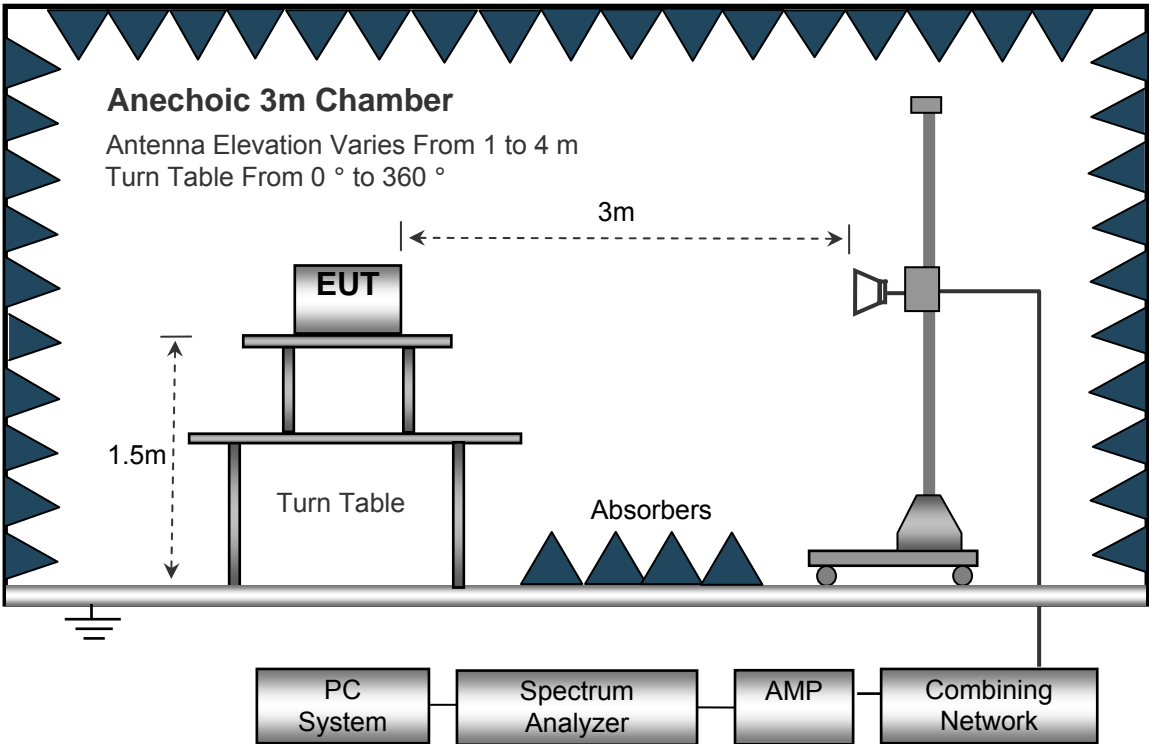
| | |
|-------------------------|-----------|
| Operating Environment : | |
| Temperature: | 23.5 °C |
| Humidity: | 52.1 % RH |
| Atmospheric Pressure: | 101.2kPa |

10.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.
The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



10.3 Spectrum Analyzer Setup

30MHz ~ 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz

10.4 Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from 30MHz up to the tenth harmonic of the highest fundamental frequency.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
7. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level
Spurious attenuation limit in dB = $43 + 10 \lg (\text{power out in Watts})$
8. Repeat above procedures until the measurements for all frequencies are completed.

10.5 Summary of Test Results

Remark: Test performed from 30MHz to 10th harmonics with low/middle/high channels, only the worst data were recorded.

Cellular Band (Part 22H)

| Frequency | Receiver Reading | Turn table Angle | RX Antenna | | Substituted | | | Absolute Level | Result | |
|---------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
| | | | Height | Polar | SG Level | Cable | Antenna Gain | | Limit | Margin |
| (MHz) | (dBμV) | Degree | (m) | (H/V) | (dBm) | (dB) | (dB) | (dBm) | (dBm) | (dB) |
| GSM 850 Channel 190 | | | | | | | | | | |
| 211.35 | 42.57 | 333 | 1.4 | H | -67.94 | 0.15 | 0.00 | -68.09 | -13.00 | -55.09 |
| 211.35 | 44.32 | 187 | 1.7 | V | -63.27 | 0.15 | 0.00 | -63.42 | -13.00 | -50.42 |
| 1673.20 | 65.33 | 352 | 2.1 | H | -48.64 | 0.30 | 9.40 | -39.54 | -13.00 | -26.54 |
| 1673.20 | 55.21 | 167 | 1.6 | V | -58.32 | 0.30 | 9.40 | -49.22 | -13.00 | -36.22 |
| 2509.80 | 50.78 | 178 | 1.3 | H | -63.22 | 0.43 | 10.60 | -53.05 | -13.00 | -40.05 |
| 2509.80 | 50.36 | 23 | 1.7 | V | -59.92 | 0.43 | 10.60 | -49.75 | -13.00 | -36.75 |
| WCDMA Band V Channel 4132 | | | | | | | | | | |
| 211.35 | 42.20 | 34 | 1.3 | H | -68.31 | 0.15 | 0.00 | -68.46 | -13.00 | -55.46 |
| 211.35 | 44.61 | 243 | 2.0 | V | -62.98 | 0.15 | 0.00 | -63.13 | -13.00 | -50.13 |
| 1652.80 | 56.39 | 329 | 1.9 | H | -57.58 | 0.30 | 9.40 | -48.48 | -13.00 | -35.48 |
| 1652.80 | 46.81 | 87 | 1.8 | V | -66.72 | 0.30 | 9.40 | -57.62 | -13.00 | -44.62 |
| 2479.20 | 42.54 | 296 | 2.1 | H | -71.46 | 0.43 | 10.60 | -61.29 | -13.00 | -48.29 |
| 2479.20 | 42.28 | 301 | 1.8 | V | -68.00 | 0.43 | 10.60 | -57.83 | -13.00 | -44.83 |

Cellular Band (Part 24E)

| Frequency | Receiver Reading | Turn table Angle | RX Antenna | | Substituted | | | Absolute Level | Result | |
|----------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
| | | | Height | Polar | SG Level | Cable | Antenna Gain | | Limit | Margin |
| (MHz) | (dBμV) | Degree | (m) | (H/V) | (dBm) | (dB) | (dB) | (dBm) | (dBm) | (dB) |
| PCS 1900 Channel 512 | | | | | | | | | | |
| 211.35 | 42.90 | 96 | 1.8 | H | -67.61 | 0.15 | 0.00 | -67.76 | -13.00 | -54.76 |
| 211.35 | 42.28 | 41 | 2.1 | V | -65.31 | 0.15 | 0.00 | -65.46 | -13.00 | -52.46 |
| 3700.40 | 65.95 | 16 | 1.4 | H | -48.02 | 2.37 | 12.50 | -37.89 | -13.00 | -24.89 |
| 3700.40 | 59.98 | 263 | 2.1 | V | -53.55 | 2.37 | 12.50 | -43.42 | -13.00 | -30.42 |
| 5550.60 | 53.58 | 178 | 1.3 | H | -60.42 | 2.86 | 12.90 | -50.38 | -13.00 | -37.38 |
| 5550.60 | 44.73 | 40 | 1.3 | V | -65.55 | 2.86 | 12.90 | -55.51 | -13.00 | -42.51 |
| WCDMA Band II Channel 9262 | | | | | | | | | | |
| 211.35 | 42.38 | 18 | 1.1 | H | -68.13 | 0.15 | 0.00 | -68.28 | -13.00 | -55.28 |
| 211.35 | 42.04 | 324 | 1.3 | V | -65.55 | 0.15 | 0.00 | -65.70 | -13.00 | -52.70 |
| 3704.80 | 58.12 | 22 | 1.6 | H | -55.85 | 2.37 | 12.50 | -45.72 | -13.00 | -32.72 |
| 3704.80 | 52.32 | 265 | 1.1 | V | -61.21 | 2.37 | 12.50 | -51.08 | -13.00 | -38.08 |
| 5557.20 | 46.14 | 301 | 1.3 | H | -67.86 | 2.86 | 12.90 | -57.82 | -13.00 | -44.82 |
| 5557.20 | 37.29 | 39 | 2.0 | V | -72.99 | 2.86 | 12.90 | -62.95 | -13.00 | -49.95 |

Note: 1) Absolute Level = SG Level - Cable loss + Antenna Gain

2) Margin = Limit- Absolute Level

11 Band Edge Measurement

| | |
|-------------------|-------------------------------------|
| Test Requirement: | FCC Part 2.1051,22.917(a),24.238(a) |
| Test Method: | ANSI C63.4:2009, TIA/EIA-603-D:2010 |
| Test Mode: | Transmitting |

11.1 EUT Operation

Operating Environment :

| | |
|-----------------------|-----------|
| Temperature: | 23.5 °C |
| Humidity: | 52.3 % RH |
| Atmospheric Pressure: | 101.3kPa |

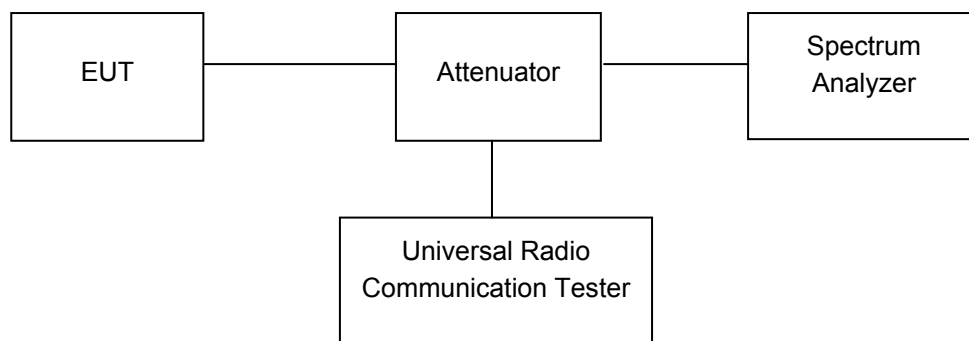
11.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

According to FCC Part 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC Part 24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The center of the spectrum analyzer was set to block edge frequency



11.3 Test Result

Test plots

Cellular Band (Part 22H)

GSM 850 band edge-left side



GSM 850 band edge-right side



EGPRS 850 band edge-left side



EGPRS 850 band edge-right side



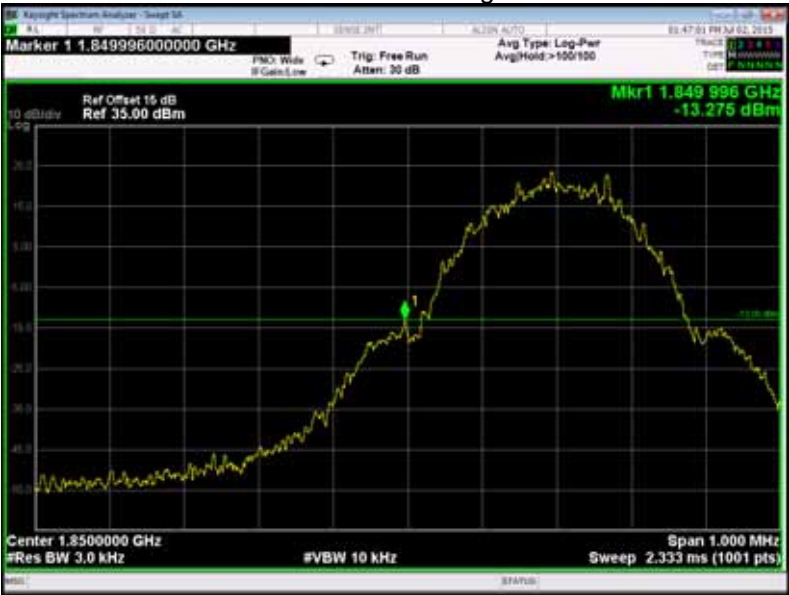
WCDMA band V band edge-left side



WCDMA band V band edge-right side



Cellular Band (Part 24E)
PCS 1900 band edge-left side



PCS 1900 band edge-right side



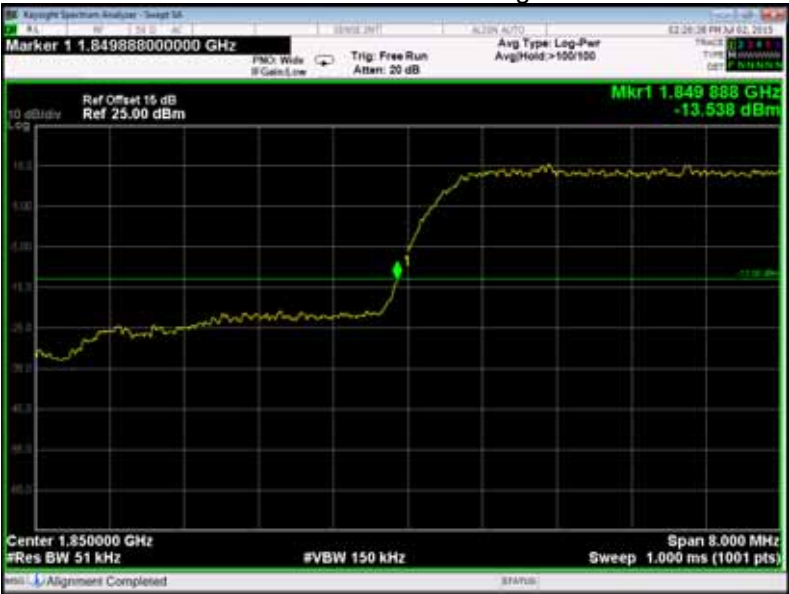
EGPRS 1900 band edge-left side



EGPRS 1900 band edge-right side



WCDMA band II band edge-left side



WCDMA band II band edge-right side



12 FREQUENCY STABILITY

| | |
|-------------------|-------------------------------------|
| Test Requirement: | FCC Part 2.1055,22.355,24.235 |
| Test Method: | ANSI C63.4:2009, TIA/EIA-603-D:2010 |
| Test Mode: | Transmitting |

12.1 EUT Operation

Operating Environment :

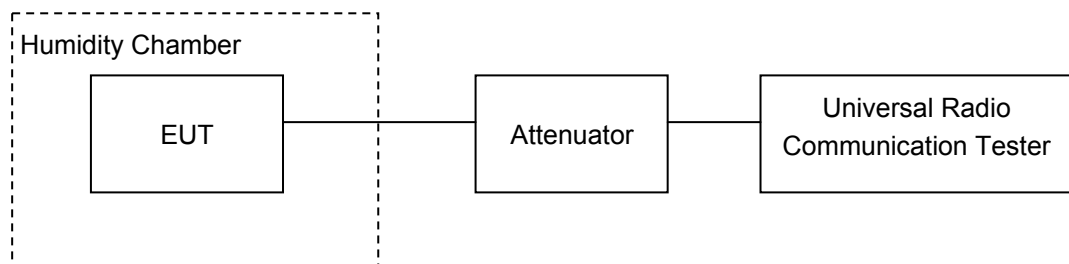
| | |
|-----------------------|-----------|
| Temperature: | 22.9 °C |
| Humidity: | 52.0 % RH |
| Atmospheric Pressure: | 101.3kPa |

12.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



12.3 Test Result

Cellular Band (Part 22H)

| GSM 850 Test Frequency:836.6MHz | | | | |
|---------------------------------|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 3 | 0.0036 | 2.5 |
| 40 | | -7 | -0.0084 | 2.5 |
| 30 | | 8 | 0.0096 | 2.5 |
| 20 | | 2 | 0.0024 | 2.5 |
| 10 | | 1 | 0.0012 | 2.5 |
| 0 | | 10 | 0.0120 | 2.5 |
| -10 | | -7 | -0.0084 | 2.5 |
| -20 | | -3 | -0.0036 | 2.5 |
| -30 | | 9 | 0.0108 | 2.5 |
| 20 | 3.3 | 7 | 0.0084 | 2.5 |
| 20 | 4.2 | -5 | -0.0060 | 2.5 |

| GPRS 850 Test Frequency:836.6MHz | | | | |
|----------------------------------|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 3 | 0.0036 | 2.5 |
| 40 | | 3 | 0.0036 | 2.5 |
| 30 | | 4 | 0.0048 | 2.5 |
| 20 | | -1 | -0.0012 | 2.5 |
| 10 | | 0 | 0.0000 | 2.5 |
| 0 | | 0 | 0.0000 | 2.5 |
| -10 | | -3 | -0.0036 | 2.5 |
| -20 | | 6 | 0.0072 | 2.5 |
| -30 | | -2 | -0.0024 | 2.5 |
| 20 | 3.3 | 8 | 0.0096 | 2.5 |
| 20 | 4.2 | -7 | -0.0084 | 2.5 |

| EGPRS 850 Test Frequency:836.6MHz | | | | |
|-----------------------------------|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 9 | 0.0108 | 2.5 |
| 40 | | 8 | 0.0096 | 2.5 |
| 30 | | 8 | 0.0096 | 2.5 |
| 20 | | 5 | 0.0060 | 2.5 |
| 10 | | 5 | 0.0060 | 2.5 |
| 0 | | 13 | 0.0155 | 2.5 |
| -10 | | 3 | 0.0036 | 2.5 |
| -20 | | -3 | -0.0036 | 2.5 |
| -30 | | -2 | -0.0024 | 2.5 |
| 20 | 3.3 | 8 | 0.0096 | 2.5 |
| 20 | 4.2 | 9 | 0.0108 | 2.5 |

| WCDMA Band V Test Frequency:836.6MHz | | | | |
|--------------------------------------|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 0 | 0.0000 | 2.5 |
| 40 | | 2 | 0.0024 | 2.5 |
| 30 | | -7 | -0.0084 | 2.5 |
| 20 | | 1 | 0.0012 | 2.5 |
| 10 | | 9 | 0.0108 | 2.5 |
| 0 | | 7 | 0.0084 | 2.5 |
| -10 | | 4 | 0.0048 | 2.5 |
| -20 | | 1 | 0.0012 | 2.5 |
| -30 | | 8 | 0.0096 | 2.5 |
| 20 | 3.3 | -2 | -0.0024 | 2.5 |
| 20 | 4.2 | 2 | 0.0024 | 2.5 |

PCS Band (Part 24E)

| PCS 1900 Test Frequency:1880.0MHz | | | | |
|-----------------------------------|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 3 | 0.0016 | 2.5 |
| 40 | | 12 | 0.0064 | 2.5 |
| 30 | | 7 | 0.0037 | 2.5 |
| 20 | | 7 | 0.0037 | 2.5 |
| 10 | | 4 | 0.0021 | 2.5 |
| 0 | | 15 | 0.0080 | 2.5 |
| -10 | | 2 | 0.0011 | 2.5 |
| -20 | | 11 | 0.0059 | 2.5 |
| -30 | | 4 | 0.0021 | 2.5 |
| 20 | 3.3 | -1 | -0.0005 | 2.5 |
| 20 | 4.2 | 2 | 0.0011 | 2.5 |

| GPRS 1900 Test Frequency:1880.0MHz | | | | |
|------------------------------------|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 3 | 0.0016 | 2.5 |
| 40 | | 10 | 0.0053 | 2.5 |
| 30 | | 9 | 0.0048 | 2.5 |
| 20 | | 2 | 0.0011 | 2.5 |
| 10 | | 10 | 0.0053 | 2.5 |
| 0 | | 4 | 0.0021 | 2.5 |
| -10 | | 3 | 0.0016 | 2.5 |
| -20 | | 9 | 0.0048 | 2.5 |
| -30 | | -1 | -0.0005 | 2.5 |
| 20 | 3.3 | -3 | -0.0016 | 2.5 |
| 20 | 4.2 | 2 | 0.0011 | 2.5 |

| EGPRS 1900 Test Frequency:1880.0MHz | | | | |
|-------------------------------------|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 8 | 0.0043 | 2.5 |
| 40 | | 8 | 0.0043 | 2.5 |
| 30 | | 11 | 0.0059 | 2.5 |
| 20 | | 5 | 0.0027 | 2.5 |
| 10 | | 14 | 0.0074 | 2.5 |
| 0 | | 11 | 0.0059 | 2.5 |
| -10 | | -1 | -0.0005 | 2.5 |
| -20 | | 13 | 0.0069 | 2.5 |
| -30 | | 0 | 0.0000 | 2.5 |
| 20 | 3.3 | 8 | 0.0043 | 2.5 |
| 20 | 4.2 | -2 | -0.0011 | 2.5 |

| WCDMA Band II Test Frequency:1880.0MHz | | | | |
|--|-----------------------|-------------------------|--------------------------|----------------|
| Temperature () | Power Supply (VDC) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 10 | 0.0053 | 2.5 |
| 40 | | 1 | 0.0005 | 2.5 |
| 30 | | 11 | 0.0059 | 2.5 |
| 20 | | 2 | 0.0011 | 2.5 |
| 10 | | 6 | 0.0032 | 2.5 |
| 0 | | 9 | 0.0048 | 2.5 |
| -10 | | 5 | 0.0027 | 2.5 |
| -20 | | 1 | 0.0005 | 2.5 |
| -30 | | -7 | -0.0037 | 2.5 |
| 20 | 3.3 | -1 | -0.0005 | 2.5 |
| 20 | 4.2 | -3 | -0.0016 | 2.5 |

13 RF Exposure

Remark: refer to SAR test report: WTS15S0628456E

===== End of Report =====