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Reference F907629-F22

Page 1 (2) 1002 ISO/IEC 17025

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Radio measurements on WCDMA 850 MHz Transceiver unit with FCC ID: TA8AKRC161134-51 and IC: 287AB-AW16113451 (9 appendices)

Test object

RRU22 0840 KRC 161 134/51 rev R2A

Appendix 1 provides information about the test object and the test set-up. Appendix 9 provides external photos of the test object.

Summary

| Standard | | Compliant | Appendix |
|---------------------------------|--|-----------|----------|
| FCC CFR 47 / IC RSS-132 Issue 2 | | | |
| | | | |
| 2.1046 / RSS-132 4.4 | RF power output | Yes | 2 |
| 2.1049 / RSS-Gen 4.6.1 | Occupied bandwidth | Yes | 3 |
| 2.1051 / RSS-132 4.5 | Band edge | Yes | 4 |
| 2.1051 / RSS-132 4.5 | Spurious emission at antenna terminals | Yes | 5 |
| 2.1053 / RSS-132 4.5 | Field strength of spurious radiation | Yes | 6 |
| 2.1055 / RSS-132 4.3 | Frequency stability | Yes | 7 |
| FCC CRF 47 / Industry | y Canada RSS-132 Issue 2 | | |
| 15.111 / RSS-132 4.6 | Receiver spurious emissions | Yes | 8 |

Note: Above RSS-132 items are given as cross-reference only. Measurements were performed according to ANSI procedures referenced by FCC and covered by SP's accreditation.

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FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451

Table of contents

| Description of the test object | Appendix 1 |
|--|--------------------------|
| Operation mode during measurements | Appendix 1 |
| Test setups | Appendix 1 |
| Purpose of test | Appendix 1 |
| RF power output | Appendix 2 |
| Occupied bandwidth | Appendix 3 |
| | |
| Band edge | Appendix 4 |
| Band edge Spurious emission at antenna terminals | Appendix 4 Appendix 5 |
| | |
| Spurious emission at antenna terminals | Appendix 5 |
| Spurious emission at antenna terminals Field strength of spurious radiation | Appendix 5 Appendix 6 |



FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451

Appendix 1

Description – Test object

| Equipment: | WCDMA Radio equipment (RRU) 850 MHz, single and multi carrier. | |
|------------------------|--|--|
| Tx Frequency range: | Tx: 871.4 – 891.6 MHz Rx: 826.4 – 846.6 MHz | |
| Modulations: | QPSK, 16QAM ar | nd 64QAM |
| Maximum output power: | Single carrier: Multi carrier: | 1x 46 dBm (1x 40W) 2x 43 dBm (2x 20W) |
| Channel bandwidth: | 4.2 to 5 MHz (con | figurable in steps of 100/200 kHz) |
| Channel spacing: | 4.4 to 5 MHz (con | figurable in steps of 100/200 kHz) |
| Nominal power voltage: | -48 VDC | |

Tested channels

| UARFCN | Frequency |
|--------|-----------|
| 4357 | 871.4 MHz |
| 4382 | 876.4 MHz |
| 4407 | 881.4 MHz |
| 4408 | 881.6 MHz |
| 4433 | 886.6 MHz |
| 4458 | 891.6 MHZ |

Operation mode during measurements

Measurements were performed with the test object transmitting the Test models which are defined in 3GPP TS 25.141. Test model 1(TM1) uses the QPSK modulation only, Test model 5(TM5) includes the 16QAM modulation and Test model 6(TM6) includes the 64QAM modulation.

The settings below were found to be representative for all traffic scenarios when several settings with the different modulations and channel bandwidths were tested to find the worst case setting. These settings were used for all measurements if not otherwise noted.

Single carrier TM1: 64 DPCH:s at 30 ksps (SF=128) Multi carrier TM1: 32 DPCH:s at 30 ksps (SF=128) in each carrier Channel bandwidth 5 MHz

Conducted measurements

The test object was powered with -48 VDC. All RF conducted measurements were performed with the test object configured for maximum transmit power. All TX measurements were done at the Ant 1 connector and the RX measurements were done on the Ant 2 connector.



FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451

Appendix 1

Radiated measurements

The test object was powered with -48 VDC. All measurements were performed with the test object configured for maximum transmit power. The configuration represents worst case for radiated spurious emission measurements.

The RF output power port was via a RF attenuator connected to functional test equipment for supervision.

The RRU unit was allocated to the following UARFCN:

Single Carrier:

| bingie cumer. | | | |
|---------------|-------------|-------------|-------------|
| Downlink | 4357 | 4407 | 4458 |
| | (871.4 MHz) | (881.4 MHz) | (891.6 MHz) |
| Uplink | 4132 | 4182 | 4233 |
| _ | (826.4 MHz) | (836.4 MHz) | (846.6 MHz) |

Multi Carrier:

| Cell | 1 | 2 | 1 | 2 |
|----------|-------------|-------------|-------------|-------------|
| Downlink | 4357 | 4407 | 4408 | 4458 |
| | (871.4 MHz) | (881.4 MHz) | (881.6 MHz) | (891.6 MHz) |
| Uplink | 4132 | 4182 | 4183 | 4233 |
| | (826.4 MHz) | (836.4 MHz) | (836.6 MHz) | (846.6 MHz) |

Purpose of test

The purpose of the tests is to verify compliance to the performance characteristics specified in applicable items of FCC CFR 47 and Industry Canada RSS-132.

References

Measurements were done according to relevant parts of the following standards: ANSI 63.4-2003 ANSI/TIA/EIA-603-B-2002 3GPP TS 25.141 RSS-Gen Issue 2 RSS-132 Issue 2



Appendix 1

Measurement equipment

| Measurement equipment | Calibration Due | SP number |
|---|-----------------|-----------|
| Test site Tesla | 2010-10 | 503 881 |
| R&S FSIQ | 2009-08 | 503 738 |
| R&S ESI 26 | 2009-07 | 503 292 |
| High pass filter | 2010-06 | 503 739 |
| Boonton RF Peak power meter/analyzer | 2009-08 | 503 144 |
| Boonton Power sensor 56518-S/4 | 2010-02 | 503 146 |
| Chase Bilog antenna CBL 6111A | 2011-11 | 502 181 |
| EMCO Horn Antenna 3115 | 2011-01 | 502 175 |
| MITEQ Low Noise Amplifier | 2009-06 | 503 285 |
| Climate chamber 3 | 2009-05 | 503 546 |
| Multimeter Fluke 87 | 2010-01 | 502 190 |
| Testo 635, Temperature and humidity meter | 2011-03 | 504 203 |
| Testo 615, Temperature and humidity meter | 2009-11 | 503 505 |

Reservation

The test results in this report apply only to the particular test object as declared in the report.

Delivery of test object

The test object was delivered: 2009-04-28

Manufacturer's representative

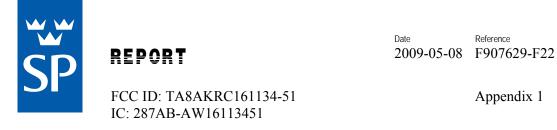
Xiaoying Jiang, Ericsson (China) Communications Company Ltd.

Test engineers

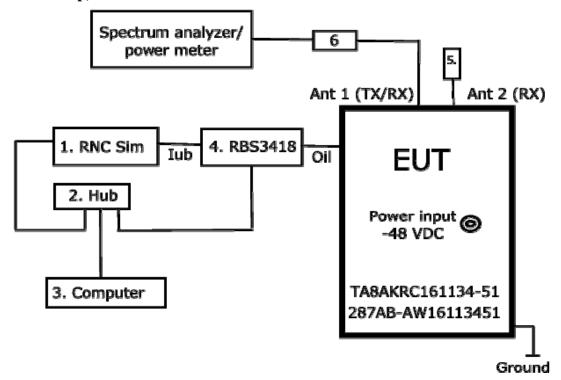
Andreas Johnson, Jonas Bremholt, Jörgen Wassholm and Reinhold Reul

Test witness

Xiaoying Jiang and Zheng Zhao, Ericsson (China) Communications Company Ltd.



Test set-up, conducted measurements TX



Page

4 (6)

Test object

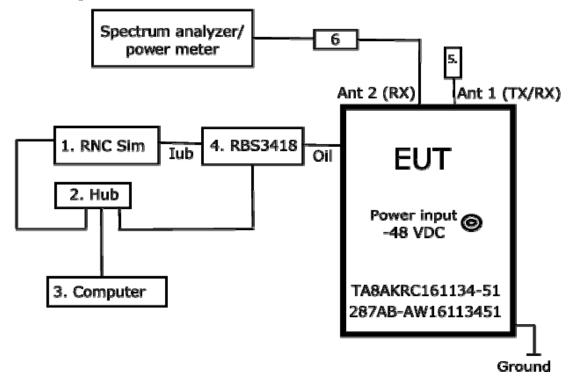
RRU22 0840 KRC 161 134/51 revision R2A, serial no: (s)CB48512587 (FCC ID: TA8AKRC161134-51/ IC: 287AB-AW16113451)

Functional test equipment

- 1. RNC Sim 4780 FA, Mini-sim #13, BAMS-1000351993
- 2. Ethernet switch, Tenda TEH108SK, serial no: S108SK01484801225
- 3. Computer, Sun Ultra 45, asset ID AP014388
- 4. RBS3418, product no. BFE 401 1019 Rev R1A, serial no. TA63705843 with software CXP 901 2959/1 rev. R9AA06
- 5. RF terminator
- 6. RF Antennuator



Test set-up, conducted measurements RX



Test object

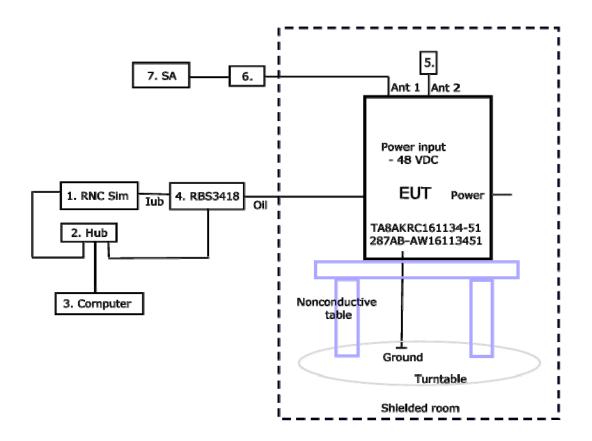
RRU22 0840 KRC 161 134/51 revision R2A, serial no: (s)CB48512587 (FCC ID: TA8AKRC161134-51/ IC: 287AB-AW16113451)

Functional test equipment

- 1. RNC Sim 4780 FA rev CDA, Mini-sim #13, BAMS-1000351993
- 2. Ethernet switch, Tenda TEH108SK, serial no: S108SK01484801225
- 3. Computer, Sun Ultra 45, asset ID AP014388
- 4. RBS3418, product no. BFE 401 1019 Rev R1A, serial no. TA63705843 with software CXP 901 2959/1 rev. R9AA06
- 5. RF terminator
- 6. RF Antennuator

FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451 Appendix 1

Test set-up, radiated measurements



Test object

RRU22 0840 KRC 161 134/51, Rev. R2A, (S)CB48512586 (FCC ID: TA8AKRC161134-51/ IC: 287AB-AW16113451)

Functional test equipment

- 1. RNC Sim 4780 FA, mini-SIM#27, s/n CH45000186 rev.BAA, BAMS 1000086811
- 2. Fast Ethernet switch, TENDA TEH500S, s/n S500S002085228528
- 3. Computer Sunblade 1500, s/n MT50610040
- 4. RBS3418, product no. BFE 401 1019 Rev R1A, serial no. TA634037772 with software CXP 901 2959/1 rev. R9AA06
- 5. Termination (50 Ω)
- 6. Attenuator 40 dB, model DTS100-40-3
- 7. FSQ 40, Signal analyzer, SP 504 143. Used for supervision only.

Interfaces:

Power configuration: -48 VDC Antenna 1 (TX/RX): Coaxial cable with N connector Antenna 2 (RX): Terminated in 50 Ω Oil: Optical interface link via CPRI **Type of port:** DC Power Antenna Antenna Telecom



REPORT

Appendix 2

RF power output measurements according to 47 CFR 2.1046/ RSS-132 4.4

| Date | Temperature | Humidity |
|------------|--------------------------------|------------|
| 2009-05-04 | $22 \degree C \pm 3 \degree C$ | 36 % ± 5 % |
| 2009-05-05 | 23 °C ± 3 °C | 34 % ± 5 % |

Test set-up and procedure

The output was connected to a peak power analyzer with the CDF mode activated.

| Measurement equipment | SP number |
|---|-----------|
| Boonton RF Peak power meter/analyzer | 503 144 |
| Boonton Power sensor 56518-S/4 | 503 146 |
| Multimeter Fluke 87 | 502 190 |
| Testo 635, Temperature and humidity meter | 504 203 |

Measurement uncertainty: 0.5 dB

Results

Single carrier: Rated output power level at Ant 1 connector (maximum): 1x 46 dBm

| Tran | smitter power (dBm/ RMS/ PAR | ′ dB) |
|------------------------|---------------------------------|------------------------|
| Frequency 871.4 MHz | Frequency 881.4 MHz | Frequency 891.6 MHz |
| 45.8/ 6.2 | 45.5/ 6.1 | 45.7/ 6.5 |

Multi carrier: Rated output power level at Ant 1 connector (maximum): 2x 43 dBm

| Transmitter combine RMS/ | · · · · · · · · · · · · · · · · · · · |
|-----------------------------|---------------------------------------|
| Frequencies | Frequencies |
| 871.4 MHz | 881.6 MHz |
| 881.4 MHz | 891.6 MHz |
| 45.5/ 6.9 | 45.4/7.0 |

Limit

According to CFR 47/ RSS there are no conducted limits at the antenna connector.

CFR § 22.913/ SRSP-503 5.1: The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts (57 dBm).

RSS-132: The transmitter output power shall not exceed the limits given in SRSP-503

| Complies? Yes |
|---------------|
|---------------|



Appendix 3

Occupied bandwidth measurements according to 47 CFR 2.1049/ RSS-Gen 4.6.1

| Date | Temperature | Humidity |
|------------|--------------------------------|------------|
| 2009-05-04 | $22 \degree C \pm 3 \degree C$ | 36 % ± 5 % |
| 2009-05-05 | 23 °C ± 3 °C | 34 % ± 5 % |

Test set-up and procedure

The measurements were made as defined in §2.1049. The output was connected to a spectrum analyzer. The spectrum analyzer was connected to an external 10 MHz reference standard during the measurements.

| Measurement equipment | SP number |
|---|-----------|
| R&S FSIQ | 503 738 |
| Testo 635, Temperature and humidity meter | 504 203 |

Measurement uncertainty: 3.7 dB

Results

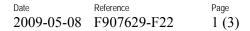
The results are shown in appendix 3.1

Channel Bandwidth 5.0 MHz

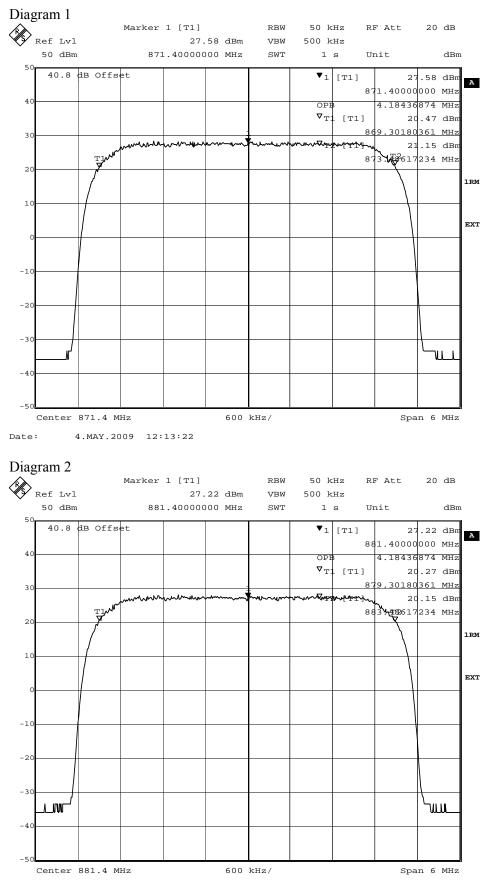
| | Frequency | OBW |
|-----------|-----------|----------|
| Diagram 1 | 871.4 MHz | 4.18 MHz |
| Diagram 2 | 881.4 MHz | 4.18 MHz |
| Diagram 3 | 891.6 MHz | 4.18 MHz |

Channel Bandwidth 4.2 MHz

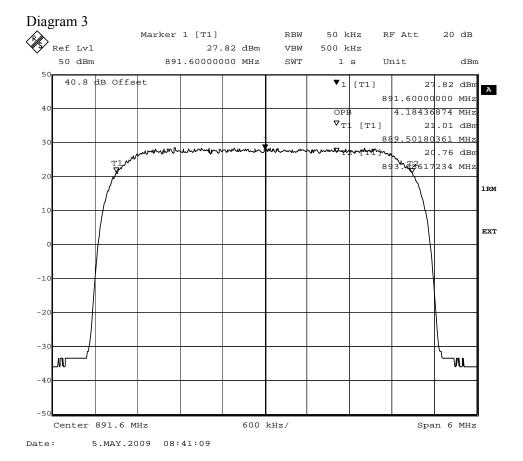
| | Frequency | OBW |
|-----------|-----------|----------|
| Diagram 4 | 871.4 MHz | 3.86 MHz |
| Diagram 5 | 881.4 MHz | 3.86 MHz |
| Diagram 6 | 891.6 MHz | 3.86 MHz |

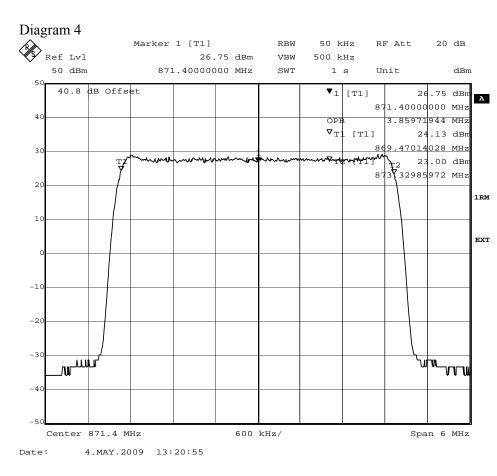


FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451

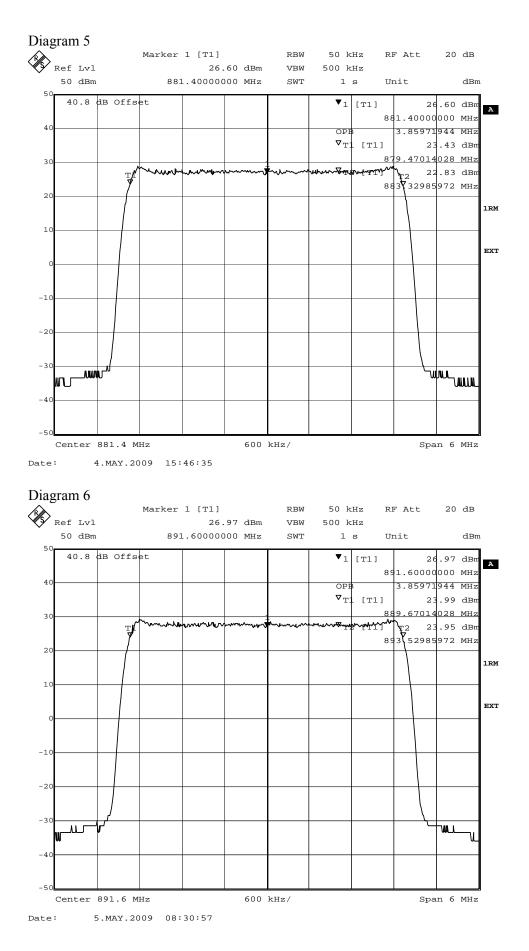


Date: 4.MAY.2009 15:25:54











REPORT

Appendix 4

Band edge measurements according to 47 CFR 2.1051/ RSS-132 4.5

| Date | Temperature | Humidity |
|------------|--------------------------------|------------|
| 2009-05-04 | $22 \degree C \pm 3 \degree C$ | 36 % ± 5 % |
| 2009-05-05 | 23 °C ± 3 °C | 34 % ± 5 % |

Test set-up and procedure

The measurements were made as defined in §22.917. The output was connected to a spectrum analyzer with the RMS detector activated. The spectrum analyzer was connected to an external 10 MHz reference standard during the measurements. A resolution bandwidth of 30 kHz was used up to 3.25 MHz away from the band edges. 30 kHz is <1% of the Emission BW(4.25 MHz between the 26 dB points). To compensate for the reduced measurement bandwidth, the limit was adjusted with 1.5 dB to -14.5 dBm up to 1 MHz away from the band edges and with 15.2 dB to -28.2 dBm from 1 MHz to 3.25 MHz away from the band edges.

| Measurement equipment | SP number |
|---|-----------|
| R&S FSIQ | 503 738 |
| Testo 635, Temperature and humidity meter | 504 203 |

Measurement uncertainty: 3.7 dB

Results

The results are shown in appendix 4.1

Single carrier: Diagram 1: 871.4 MHz Diagram 2: 891.6 MHz

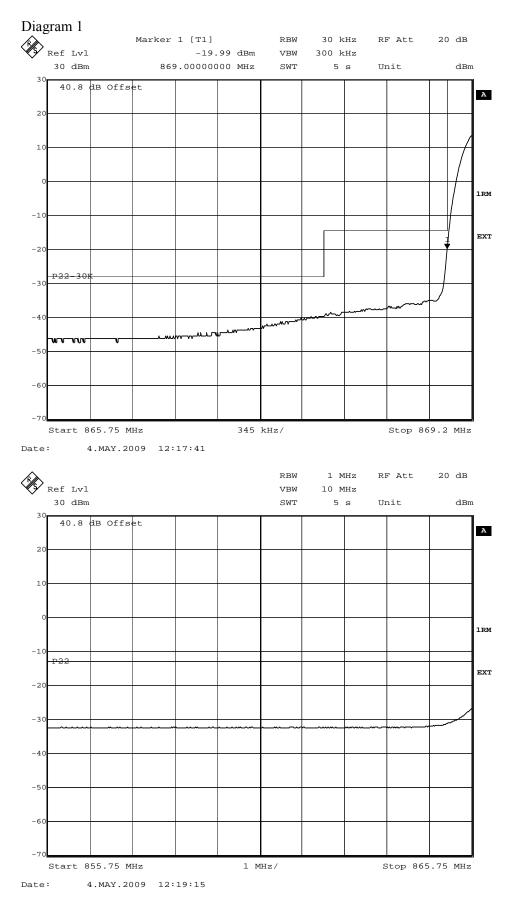
Multi carrier: Diagram 3: 871.4+876.4 MHz Diagram 4: 891.6+886.6 MHz

Limits

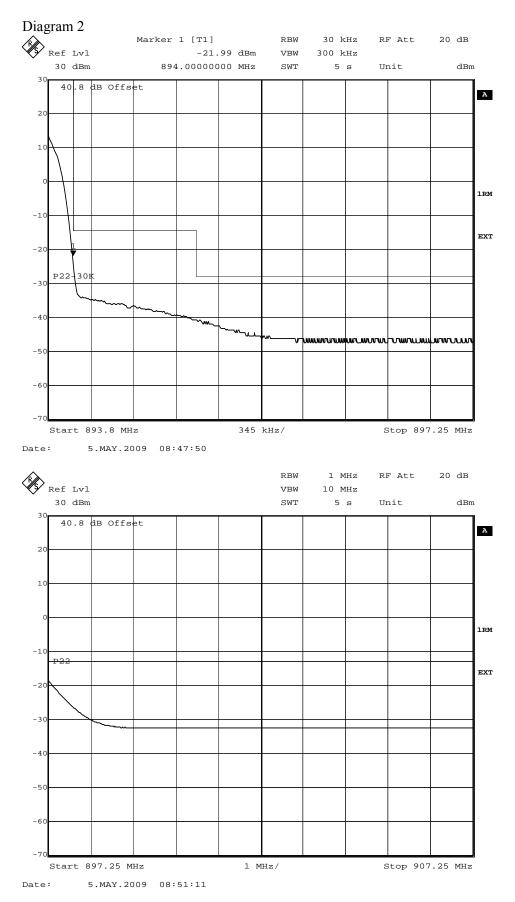
The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least $43 + 10 \log P \, dB$.

| Complies? | Yes |
|-----------|-----|
|-----------|-----|

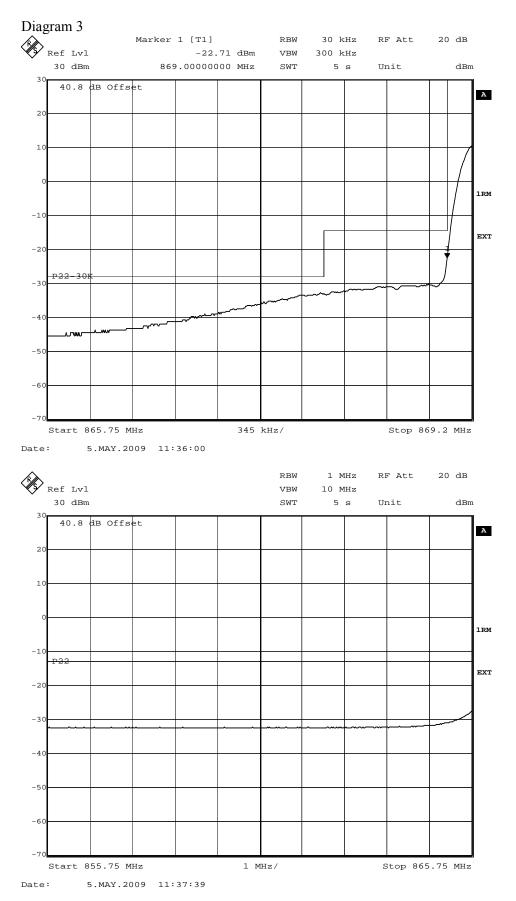
FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451



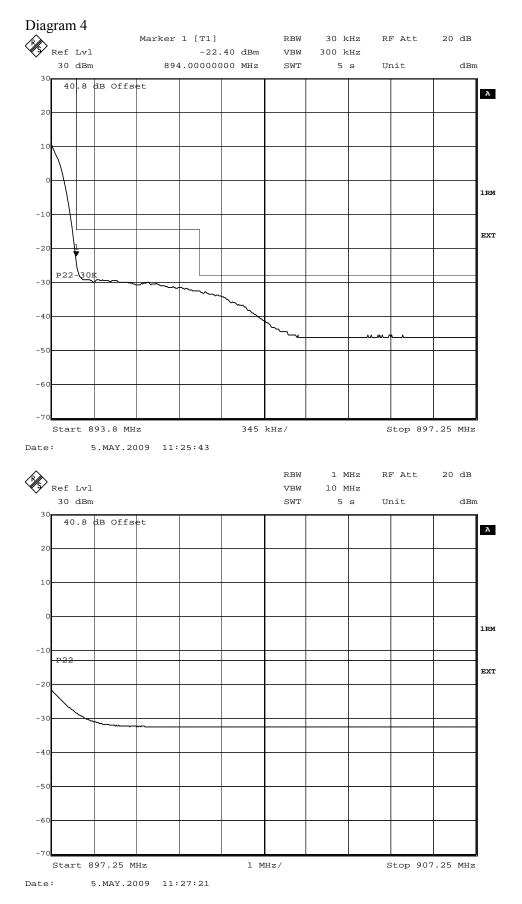




FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451









FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451 Appendix 5

Conducted spurious emission measurements according to 47 CFR 2.1051/ RSS-132 4.5

| Date | Temperature | Humidity |
|------------|--------------------------------|------------|
| 2009-05-04 | $22 \degree C \pm 3 \degree C$ | 36 % ± 5 % |
| 2009-05-05 | 23 °C ± 3 °C | 34 % ± 5 % |

Test set-up and procedure

The measurements were made with a resolution bandwidth of 1 MHz instead of 100 kHz as RSS-132 specify 1 MHz for equipment with an emission bandwidth of \geq 4 MHz. The output was connected to a spectrum analyzer. First a pre-measurement with activated peak detector was performed. Emissions close to or above the limit is measured with activated RMS detector and the RMS measurement result is noted. The spectrum analyzer was connected to an external 10 MHz reference standard during the measurements.

| Measurement equipment | SP number |
|---|-----------|
| R&S FSIQ | 503 738 |
| High pass filter | 503 739 |
| Testo 635, Temperature and humidity meter | 504 203 |

Measurement uncertainty: 3.7 dB

Results

The results are shown in appendix 5.1

Single carrier: Diagram 1: 871.4 MHz Diagram 2: 881.4 MHz Diagram 3: 891.6 MHz

Multi carrier: Diagram 4: 871.4+881.4 MHz Diagram 5: 881.6+891.6 MHz

Remark

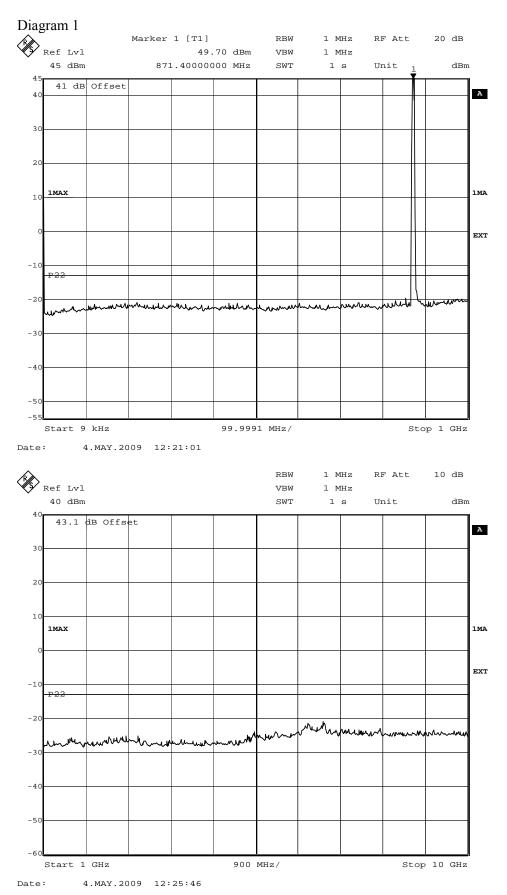
The emission at 9 kHz on the plots was not generated by the test object. A complementary measurement with a smaller RBW showed that it was related to the LO feedthrough.

Limits

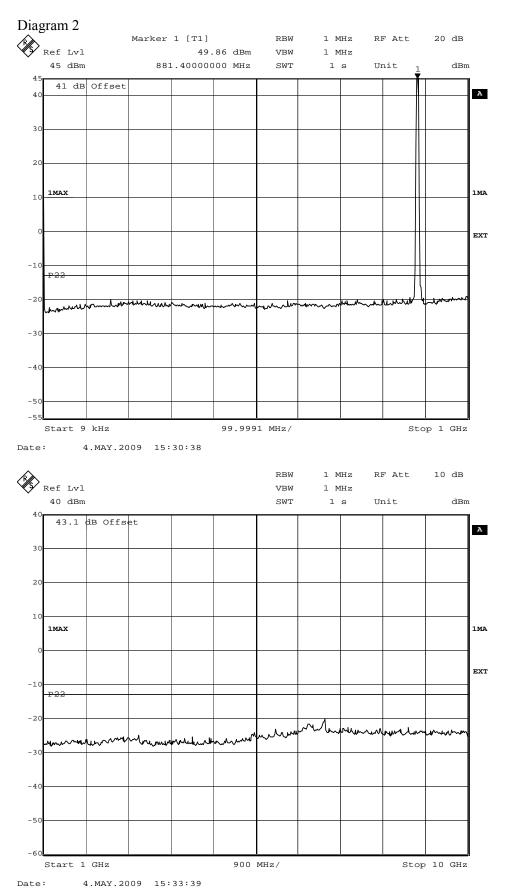
The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least $43 + 10 \log P \, dB$.

| Complies? | Yes |
|-----------|-----|
| | |

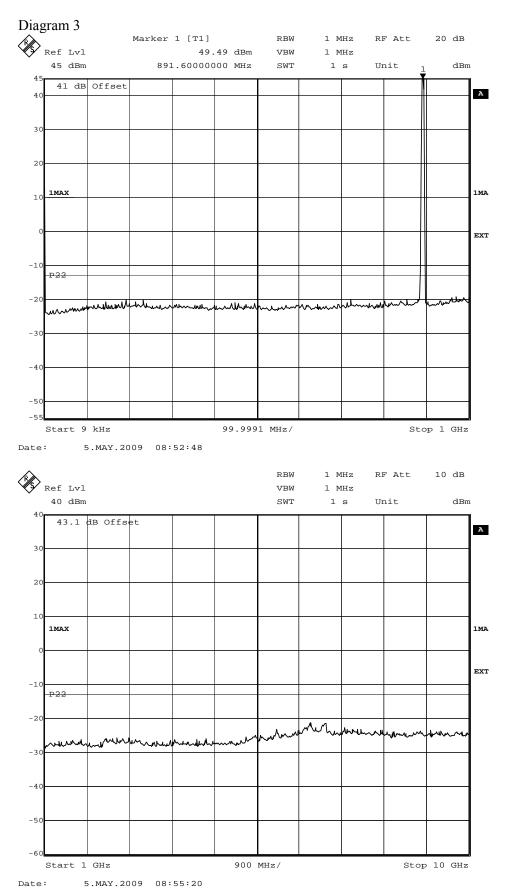




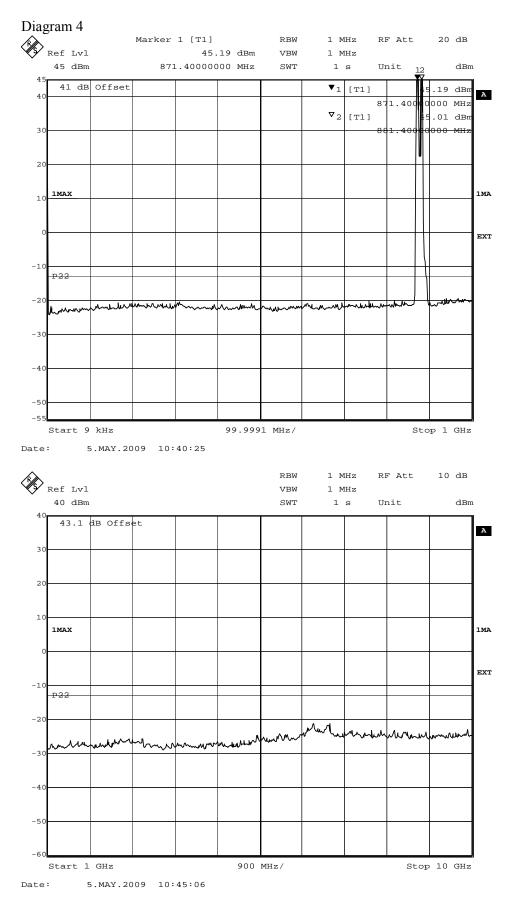




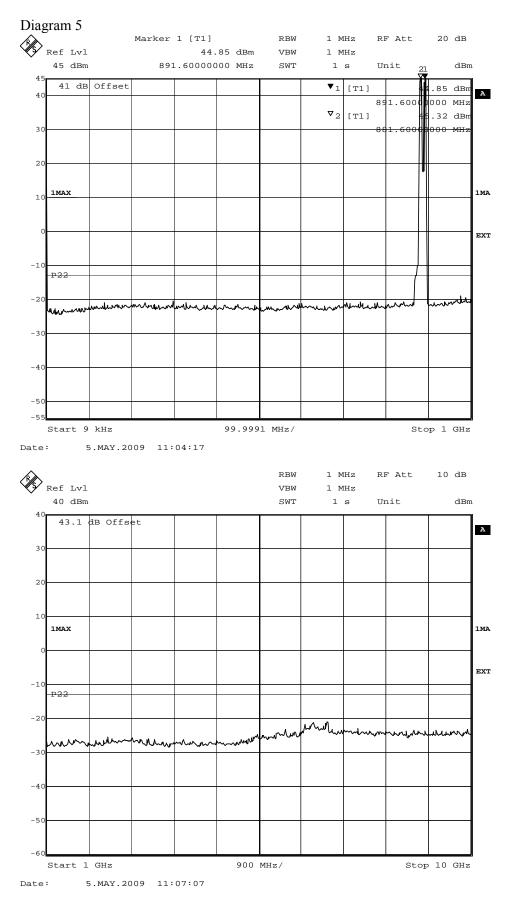




FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451



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FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451 Appendix 6

Field strength of spurious radiation measurements according to 47 CFR 2.1053/ RSS-132 4.5

| Date | Temperature | Humidity |
|--------------------------|-------------------------------------|---------------|
| 2009-05-04 to 2009-05-06 | $22-23 \text{ °C} \pm 3 \text{ °C}$ | 28-32 % ± 5 % |

Test set-up and procedure

The test site is listed at FCC, Columbia with registration number: 93866. The test site also complies with RSS-Gen, Industry Canada file no.:IC 3482.

The transmitter was modulated with pseudorandom data during the measurements. Antenna port 1 was connected to functional test equipment outside the test chamber for signal monitoring. Antenna port 2 was terminated with a 50 ohm load.

The measurements were performed with both horizontal and vertical polarization of the antenna. The antenna distance was 3 m.

- 1. A pre-measurement was first performed:
- 2. In the frequency range 30 MHz-10 GHz the measurement was performed in power with a RBW of 1 MHz. A propagation loss in free space was calculated. The used formula was,

$$\gamma = 20 \log \left(\frac{4\pi D}{\lambda} \right)$$
, γ is the propagation loss and D is the antenna distance.

- 3. The measurement procedure was as the following:
- 4. The pre-measurement was first performed with peak detector. The EUT was measured in eight directions and with the antenna at three heights, 1.0 m, 1.5 m and 2.0 m.
- 5. Spurious radiation on frequencies closer than 20 dB to the limit is scanned 0-360 degrees and the antenna is scanned 1-4 m for maximum response. The emission is then measured with the RMS detector and the RMS value is reported, frequencies closer than 10 dB to the limit measured with the RMS detector were measured with the substitution method according to the standard.

| Measurement equipment | SP number |
|---|-----------|
| Test site Tesla | 503 881 |
| R&S ESI 26 | 503 292 |
| R&S FSIQ | 503 738 |
| Control computer | 503 479 |
| Software: R&S EMC32, ver. 6.30.10 | - |
| Chase Bilog antenna CBL 6111A | 502 182 |
| EMCO Horn Antenna 3115 | 502 175 |
| MITEQ Low Noise Amplifier | 503 285 |
| Testo 615, Temperature and humidity meter | 503 505 |



FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451

The test set-up during the spurious radiation measurements are shown in the picture below:



Results

Single carrier

| | Spurious emission level (dBm) | |
|--------------------------------|----------------------------------|----------------------------------|
| Frequency (MHz) | Vertical | Horizontal |
| 30-10 000 | All emission > 20 dB below limit | All emission > 20 dB below limit |
| Measurement uncertainty 4.7 dB | | |

Multi carrier

| | Spurious emission level (dBm) | |
|--------------------------------|----------------------------------|----------------------------------|
| Frequency (MHz) | Vertical | Horizontal |
| 30-10 000 | All emission > 20 dB below limit | All emission > 20 dB below limit |
| Measurement uncertainty 4.7 dB | | |

Limits

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least $43 + 10 \log P \, dB$.

| Complies? | |
|-----------|-----|
| | Yes |



FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451

Appendix 7

Frequency stability according to 47 CFR 2.1055/ RSS-132 4.3

| Date | Temperature (test equipment) | Humidity (test equipment) |
|--------------------------|------------------------------|---------------------------|
| 2009-05-06 to 2009-05-08 | $23^{\circ}C \pm 3^{\circ}C$ | 31-35 % ± 5 % |

Test set-up and procedure

The measurement was made per 3GPP TS 25.141. The output was connected to a spectrum analyzer. The spectrum analyzer was connected to an external 10 MHz reference standard during the measurements.

| Measurement equipment | SP number |
|---|-----------|
| R&S FSIQ | 503 738 |
| Testo 635, Temperature and humidity meter | 504 203 |
| Climate chamber 3 | 503 546 |

Results

Nominal Voltage -48 V DC Maximum output power at 881.4 MHz

| Test conditions | | Frequency error (Hz) |
|--------------------------|--------|-------------------------|
| Supply voltage DC (V) | T (°C) | |
| -48.0 | +20 | -30 |
| -55.2 | +20 | -35 |
| -40.8 | +20 | +31 |
| -48.0 | +30 | -48 |
| -48.0 | +40 | +26 |
| -48.0 | +50 | +36 |
| -48.0 | +10 | -33 |
| -48.0 | 0 | -36 |
| -48.0 | -10 | -37 |
| -48.0 | -20 | +30 |
| -48.0 | -30 | -25 |
| Maximum freq. error (Hz) | | 48 |
| Measurement uncertainty | | $<\pm 1 \times 10^{-7}$ |

Limits (according to 3GPP TS 25.141)

The frequency error shall be within ± 0.05 PPM ± 12 Hz (56.1 Hz).



FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451 Appendix 8

Receiver spurious emissions measurements according to 47 CFR 15.111/ IC RSS-132, section 4.6.

| Date | Temperature | Humidity |
|------------|------------------------------|------------|
| 2009-05-05 | $23^{\circ}C \pm 3^{\circ}C$ | 34 % ± 5 % |

Test set-up and procedure

The measurements were performed according to ANSI C63.4.

Measurements were performed on the receiver antenna terminal (Ant 2). The measurement is first performed with peak detector. Emission on frequencies close to or above the limit is remeasured with quasi-peak detector (average detector above 1000 MHz).

| Measurement equipment | SP number |
|---|-----------|
| R&S FSIQ 40 | 503 738 |
| Testo 635, Temperature and humidity meter | 504 203 |

Result

The results are shown in appendix 8.1:

| | Rx frequency |
|-----------|--------------|
| Diagram 1 | 826.4 MHz |
| Diagram 2 | 836.4 MHz |
| Diagram 3 | 846.6 MHz |

Note: During the measurement on the RX port Ant 2 the combined TX/RX port Ant 1 was terminated with 50 ohm, the TX was active in single carrier mode transmitting TM1.

Remark

The emission at 9 kHz on the plots was not generated by the test object. A complementary measurement with a smaller RBW showed that it was related to the LO feedthrough.

Limit

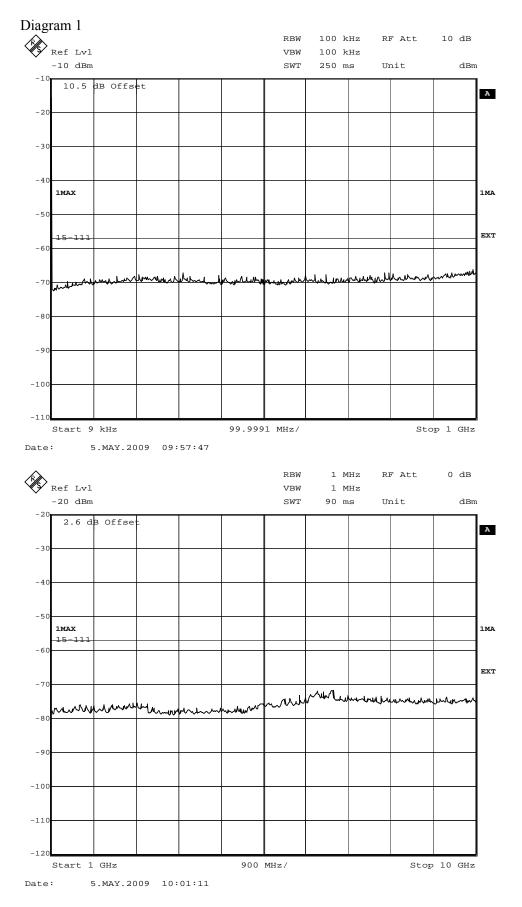
The power of any spurious output signals appearing at the antenna terminals must not exceed -57 dBm (2 nanowatts).

| Emission below limit? | Yes |
|-----------------------|-----|
|-----------------------|-----|



Page 2 1 (3)

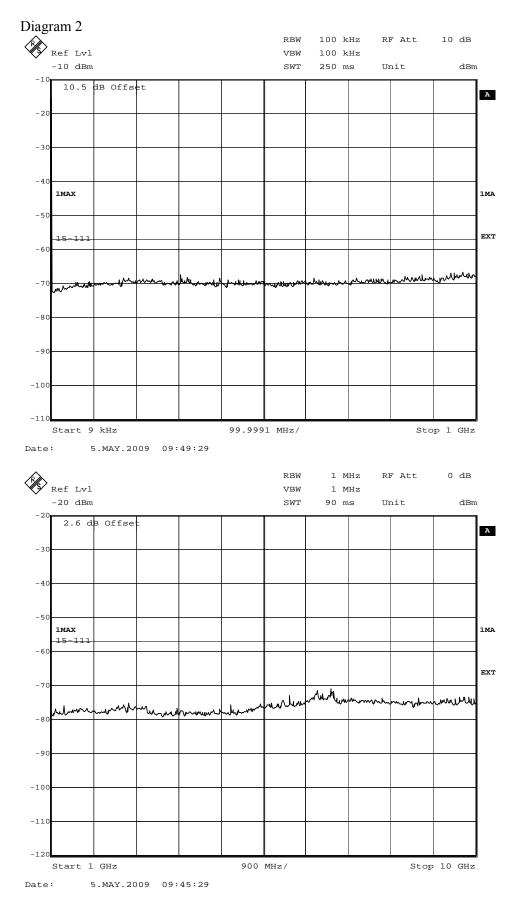
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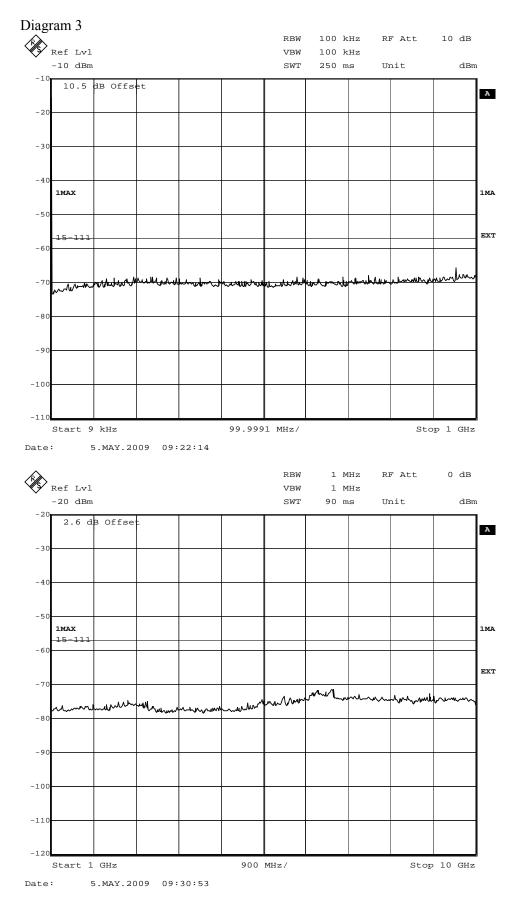
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Page 3 (3)

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FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451

Photos



Right side



Rear side



Left side



Appendix 9



Page 2 (2)

FCC ID: TA8AKRC161134-51 IC: 287AB-AW16113451 Appendix 9

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Reference

