






TEST REPORT FROM RADIO FREQUENCY INVESTIGATION LTD.

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002


Test Report Serial No:
RFI/MPTB1/RP44801JD01A

| | |
|---|--|
| This Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director:  | Checked By:  |
| Tested By:  | Release Version No: PDF01 |
| Issue Date: 13 June 2003 | Test Dates: 07 May 2003 to 14 May 2003 |

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The results in this report apply only to the sample(s) tested.

| | | |
|---|---|---|
| Radio Frequency Investigation Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, ENGLAND. Tel: +44 (0) 1256 851193 Fax: +44 (0) 1256 851192 | Registered in England, No. 211 7901. Registered Office: Ewhurst Park, Ramsdell, Basingstoke, Hampshire RG26 5RQ |  0644 |
|---|---|---|

RADIO FREQUENCY INVESTIGATION LTD.

Conformance Testing Department

**Test Of: Ericsson AB.
RBS 2308**

To: FCC Part 24: 2002

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S.No: RFI/MPTB1/RP44801JD01A

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1. Client Information

| | |
|----------------------|--|
| Company Name: | Ericsson AB |
| Address: | Bergfotsgatan 2 Mölnadal SE-431 84 Sweden |
| Contact Name: | Mr Pelle Hellberg |

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2. Equipment Under Test (EUT)

The following information has been supplied by the client:

2.1. Identification Of Equipment Under Test (EUT)

FCC ID: B5KAKRC16184-3

| No. | Unit | Model Number | Serial Number | Revision Number |
|-----|------------------|--------------|---------------|-----------------|
| 1. | RBS 2308 Cabinet | KRC 161 84/3 | AE50129250 | R4B |
| 2. | RBS 2308 Cabinet | KRC 161 84/3 | AE50147401 | R4B |

Note The above unit was tested for all conducted measurements at Mölndal.

| No. | Unit | Model Number | Serial Number | Revision Number |
|-----|------------------|--------------|---------------|-----------------|
| 1. | RBS 2308 Cabinet | KRC 161 84/3 | AE50129381 | R4B |

Note The above unit was tested for radiated spurious emissions at RFI in Basingstoke.

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2.2. Description Of EUT

The equipment under test is an RBS 2308 GMSK/8PSK base transceiver station operating in the GSM 1900 MHz band.

2.3. Modifications Incorporated In EUT

The EUT has not been modified from what is described by the Model Number stated above.

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2.4. Additional Information Related To Testing

| | |
|--|---|
| Power Supply Requirement: | Nominal 115 V 60 Hz AC Mains supply |
| Intended Operating Environment: | Within GSM Network Coverage |
| Equipment Category: | Fixed (Base Station) |
| Type of Unit: | GSM 1900 Base Transceiver Station |
| Interface Ports: | Telecommunication Line – E1 or T1 PCM x 2 (G703) TIB – Synchronisation Interface Mains 115 V AC Input DVT – RBS Master Control RF x 2 RXBP x 2 |
| Transmit Frequency Range | 1930 MHz to 1990 MHz |
| Receive Frequency Range | 1850 MHz to 1910 MHz |
| Maximum Power Output (EIRP) | +33.84 dBm |

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2.5. Support Equipment – Mölndal

The following support equipment was used to exercise the EUT during testing at Mölndal:

| | |
|-------------------------------|------------------------------|
| Description: | BSC Simulator |
| Brand Name: | RBS Master 2 |
| Model Name or Number: | LPY 107 1007/1 R1F |
| Serial Number: | 00156 |
| FCC ID Number: | Not applicable |
| Cable Length And Type: | 3 m, 9 pin, D Type |
| Connected to Port: | G703-1 ABIS |
| Cable Length And Type: | 3 m, 9 pin, D Type, Shielded |
| Connected to Port: | G.703-2 ABIS |
| Cable Length And Type: | 3 m, 9 pin, D type |
| Connected to Port: | RBS DVT |
| Cable Length And Type: | 2 m, BNC |
| Connected to Port: | Ext Ref In |
| Cable Length And Type: | 2 m, BNC |
| Connected to Port: | TRIG Out |
| Cable Length And Type: | 2 m, BNC |
| Connected to Port: | 10 MHz Out |
| Cable Length And Type: | 1.5m, 9 Way, D Type |
| Connected to Port: | PC DVT |
| Cable Length And Type: | 1.5m, 9 Way, D Type |
| Connected to Port: | PC Ctrl |
| Cable Length And Type: | 2m, Mains Cable |
| Connected to Port: | AC Mains In |
| Cable Length And Type: | 3 m, 34 Way Ribbon Cable |
| Connected to Port: | TIB In/Out |

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Support Equipment – Mölndal (continued)

| | |
|-------------------------------|---------------------|
| Description: | Computer |
| Brand Name: | Propac |
| Model Name or Number: | 18-0100 Type 18 |
| Serial Number: | 169 |
| FCC ID Number: | Not applicable |
| Cable Length And Type: | 1.5 m, 9 Pin D Type |
| Connected to Port: | PC DVT |
| Cable Length And Type: | 1.5 m, 9 Pin D Type |
| Connected to Port: | PC Ctrl |
| Cable Length And Type: | 2 m, Mains Cable |
| Connected to Port: | AC Input |
| Cable Length And Type: | 0.3 m, GPIB |
| Connected to Port: | IEEE Bus |
| Cable Length And Type: | 4 m, 8 Core |
| Connected to Port: | Network |
| Cable Length And Type: | 5 m, 7 Way |
| Connected to Port: | Mouse |
| Cable Length And Type: | 5 m, 7 Way |
| Connected to Port: | Keyboard |

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2.6.Support Equipment - Basingstoke

The following support equipment was used to exercise the EUT during testing at Basingstoke:

| | |
|-------------------------------|------------------------------|
| Description: | RBS Master |
| Brand Name: | Ericsson AB |
| Model Name or Number: | LYP 1071007/1 |
| Serial Number: | 00049 |
| Cable Length And Type: | 3 x 30m 9 Way D-Type RS232 |
| Connected to Port: | EUT G.703 ABIS A and B Ports |

| | |
|-------------------------------|-------------------------------|
| Description: | Laptop PC |
| Brand Name: | LOGIN |
| Model Name or Number: | RT686 |
| Serial Number: | 1974449 |
| Cable Length And Type: | 2m RS232 Shielded |
| Connected to Port: | RBS Master2 – PC Control Port |

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RBS 2308 (115 V, 60 Hz AC) Hardware List (Conducted Measurements at Mölndal)

| Unit | Model Number | Serial Number | Revision Number |
|-----------------------|----------------|---------------|-----------------|
| Mounting Base | SEB 112 1133/2 | S951974971 | R1A |
| IUX | BOE 602 15/2 | AE50129294 | R2A |
| RRU-H | KRC 161 84/3 | AE50129250 | R4B |
| Radio Access Board 1 | ROA 117 4765/1 | AE50127640 | R1A |
| Radio Access Board 2 | ROA 117 4765/1 | AE50127638 | R1A |
| Digital Radio Board 1 | ROA 117 4767/2 | AE50030504 | R1E |
| Digital Radio Board 2 | ROA 117 4767/2 | AE50030496 | R1E |
| Duplex Filter 1 | KRF 102 233/1 | TF31001945 | R1A |
| Duplex Filter 2 | KRF 102 233/1 | TF31001946 | R1A |
| Heater | BPC 111 25/1 | X031001083 | R3C |
| PSU | BML 151 23/1 | X701001461 | R4B |
| Power Interface Board | ROA 117 4775/1 | S952099823 | R2A |
| Y Interface Board | ROA 117 4799/3 | S952035008 | R1B/C |
| Radio Interface Board | ROA 117 4831/1 | S952015460 | R1B |

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RBS 2308 (115 V, 60 Hz AC) Hardware List (Radiated Measurements at Basingstoke)

| Unit | Model Number | Serial Number | Revision Number |
|------------------------------|----------------|---------------|-----------------|
| IXU21 | BOE 602 15/2 | AE50129293 | R2A |
| Mounting Base | SEB 112 1133/2 | S952070019 | R1A |
| FAN | BKV 301483/1 | S952110630 | R1A |
| RRU Edge 1900 Transceiver | KRC 16184/3 | AE50129381 | R4B |

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3. Test Specification, Methods And Procedures

3.1. Test Specification

| | |
|-------------------------|---|
| Reference: | FCC Part 24 Subpart E: 2002 (Broadband PCS) |
| Title: | Code of Federal Regulations, Part 24 (47CFR) Personal Communication Services. |
| Comments: | None. |
| Purpose of Test: | To determine whether the equipment complied with the requirements of the specification for the purposes of certification. |

| | |
|-------------------------|--|
| Reference: | FCC Part 2: 2002 |
| Title: | Code of Federal Regulations, Part 2 (47CFR) Frequency allocations and radio treaty matters; General Rules and Regulations |
| Comments: | None. |
| Purpose of Test: | To determine whether the equipment complied with the requirements of the specification for the purposes of certification. |

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3.2. Methods And Procedures

The methods and procedures used were as detailed in:

47CFR: Part 24 (2002)

Title: Federal Communications Commission: Code of Federal Regulations 47:
Public Mobile Services.

47CFR: Part 2 (2002)

Title: Federal Communications Commission: Code of Federal Regulations 47:
Telecommunication

ANSI/TIA-603-B-2002

Land Mobile Communications Equipment, Measurements and performance Standards.

ANSI C63.2 (1996)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2001)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1998)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1 (1999)

Title: Specification for radio disturbance and immunity measuring apparatus and methods. Part 1. Radio disturbance and immunity measuring apparatus.

3.3. Definition Of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

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4. Deviations From The Test Specification

None

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5. Operation Of The EUT During Testing

5.1. Operating Conditions

The EUT was tested in a normal laboratory environment.

5.2. Operating Modes

The EUT operates in modulation modes 8PSK and GMSK and therefore all tests have been performed in both modes.

There were two transceivers tested, each transceiver has 2 transmitter outputs TX0-TX1 for the first transceiver and TX2-TX3 for the second. This gives a total of 4 transmitters. All transmitters are identical with regards to operating modes.

For Occupied Bandwidth, Band Edge testing and Frequency Stability, TX0 and TX2 were chosen to represent each transceiver.

Block Edge measurements were performed on TX0.

Modulation Characteristics were performed on TX1 and TX3.

Carrier Output Power and Spurious Emission were tested all on all 4 transceivers.

All transmitters TX0, TX1, TX2 and TX3 are identical in all respects. Testing was performed on the specified TX's to show that they were indeed identical.

Tests were performed on bottom(512), middle(661) and top(810) channels unless stated otherwise for each measurement.

The ARFCN's tested at Block and Band Edges needed to have there power levels educed by 4 dB in order to fulfil the requirements. The ARFCN's adjacent to these channels were also tested to show that the requirements were met for these ARFCN's at full output power.

The following channels were chosen for testing:

5.2.1. Radiated Emissions – GMSK Mode

| Channel No. | Frequency | Transmitter | ARP |
|--------------------|------------------|--------------------|------------|
| 512 | 1930.2 | 0 | A |
| 661 | 1960.0 | 1 | A |
| 725 | 1972.8 | 2 | B |
| 810 | 1989.8 | 3 | B |

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5.2.2. Radiated Emissions – EDGE Mode

| Channel No. | Frequency | Transmitter | ARP |
|-------------|-----------|-------------|-----|
| 512 | 1930.2 | 0 | A |
| 661 | 1960.0 | 1 | A |
| 725 | 1972.8 | 2 | B |
| 810 | 1989.8 | 3 | B |

5.2.3. Conducted Measurements

| GMSK Mode | | EDGE Mode | |
|-------------|-----------|-------------|-----------|
| Channel No. | Frequency | Channel No. | Frequency |
| 512 | 1930.2 | 512 | 1930.2 |
| 513 | 1930.4 | 513 | 1930.4 |
| 585 | 1944.8 | 585 | 1944.8 |
| 587 | 1945.2 | 587 | 1945.2 |
| 610 | 1949.8 | 610 | 1949.8 |
| 612 | 1950.2 | 612 | 1950.2 |
| 661 | 1960.0 | 661 | 1960.0 |
| 685 | 1964.8 | 685 | 1964.8 |
| 687 | 1965.2 | 687 | 1965.2 |
| 710 | 1969.8 | 710 | 1969.8 |
| 712 | 1970.2 | 712 | 1970.2 |
| 735 | 1974.8 | 735 | 1974.8 |
| 737 | 1975.2 | 737 | 1975.2 |
| 809 | 1989.6 | 809 | 1989.6 |
| 810 | 1989.8 | 810 | 1989.8 |

5.3. Configuration and Peripherals

The EUT was tested in the following configuration:

As a standalone RBS 2308 base transceiver station.

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6. Summary Of Test Results

Transmit Mode

| Range Of Measurements | Specification Reference | Mode of Operation | Port Type | Compliance Status |
|--|--|-------------------|-------------------|-------------------|
| Carrier Output Power (GSM 1900 Mode) | Part 2 of CFR 47: 2002, Section 2.1046(a) | Transmit | Antenna Terminals | Complied |
| Modulation Characteristics | Part 2 of CFR 47: 2002, Section 2.1047 | Transmit | Antenna Terminals | Complied |
| Frequency Stability (Temperature Variation) | Part 24 of CFR 47: 2002, Section 24.235 | Transmit | Antenna Terminals | Complied |
| Frequency Stability (Voltage Variation) | Part 24 of CFR 47: 2002, Section 24.235 | Transmit | Antenna Terminals | Complied |
| Occupied Bandwidth | Part 2 & 24 of CFR 47: 2002 Sections 2.1049/24.238 | Transmit | Antenna Terminals | Complied |
| Conducted Out of Band Emissions (9 kHz to 20.0 GHz) | Part 2 & 24 of CFR 47: 2002 Sections 2.1051/24.238 | Transmit | Antenna Terminals | Complied |
| Conducted Emissions, Inband Intermodulation Test (9 kHz to 20.0 GHz) | Part 2 & 24 of CFR 47: 2002 Sections 2.1051/24.238 | Transmit | Antenna Terminals | Complied |
| Transmitter Conducted Emissions at Block Edges | C.F.R. 47 FCC Part 24: 2002 Section 2.1051/24.238 | Transmit | Antenna Terminals | Complied |
| Transmitter Conducted Emissions at Band Edges | C.F.R. 47 FCC Part 24: 2002 Section 2.1051/24.238 | Transmit | Antenna Terminals | Complied |
| Electric Field Strength, Spurious Emissions (30 MHz to 20.0 GHz) | Part 2 & 24 of CFR 47: 2002 Section 2.1053/24.238 | Transmit | Antenna | Complied |

6.1. Location Of Tests

All the measurements described in this report were performed at the premises of Ericsson AB, Bergfotsgatan 2, Mölndal, SE-431 84, Sweden and Radio Frequency Investigation Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, England.

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7. Measurements, Examinations And Derived Results

7.1. General Comments

7.1.1. This section contains test results only. Details of the test methods and procedures can be found in Appendix 3 of this report.

7.1.2. Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.

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7.2. Conducted RF Output Power: Section 2.1046 (a)

7.2.1. The EUT and spectrum analyser were configured as for conducted antenna port measurements.

7.2.2. Tests were performed to identify the maximum transmit power in accordance with FCC Part 2.1046(a) for conducted power, with reference to TIA_EIA_603B.

7.2.3. Measurements were made at the ARP (Antenna Reference Point) output connectors.

7.2.4. The output was connected to a spectrum analyser via cables, a 50 Ohm attenuator and an RF box containing further attenuators.

7.2.5. The path loss of 33.5 dB was entered into the spectrum analyser as a reference level offset.

7.2.6. Results are shown for the EUT set to Bottom, Middle and Top channels using a 115 V AC 60 Hz supply.

Results

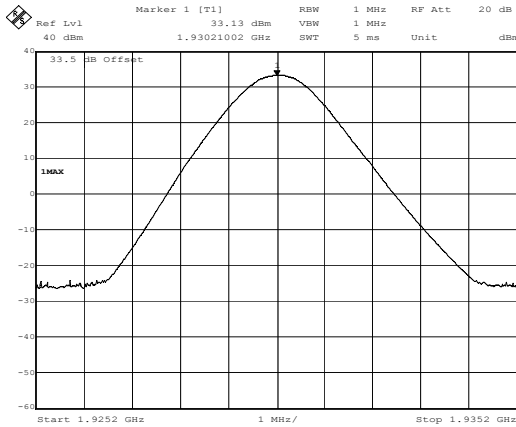
Test Of: Ericsson AB.

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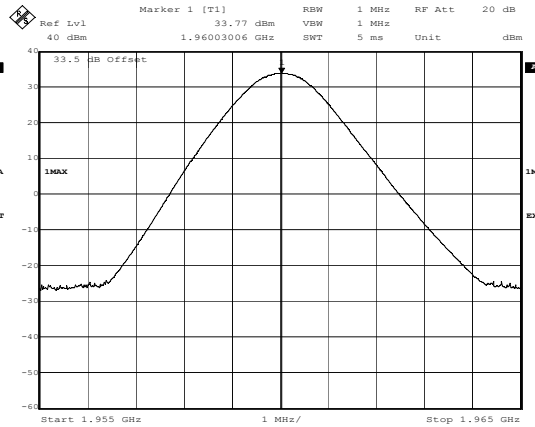
To: FCC Part 24: 2002

Mode: GMSK – Tx0

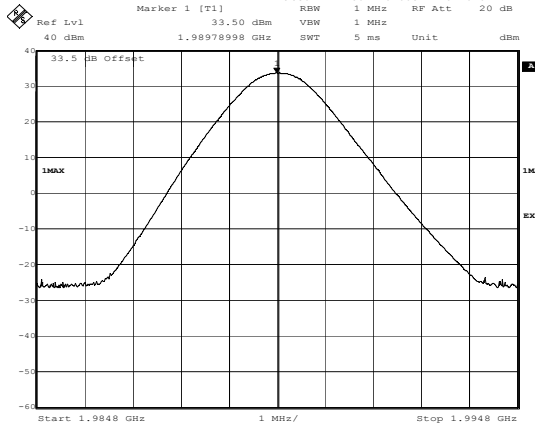
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.21002 | 33.13 |
| Middle | 1960.03006 | 33.77 |
| Top | 1989.78998 | 33.50 |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch812, +33.5dBm Output Power, GMSK Mode TX0, FCC Part 22.917
 Date: 8.MAY.2003 11:17:28



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch661, +33.5dBm Output Power, GMSK Mode TX0, FCC Part 22.917
 Date: 8.MAY.2003 11:22:15



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, +33.5dBm Output Power, GMSK Mode TX0, FCC Part 22.917
 Date: 8.MAY.2003 11:28:26

Test Of: Ericsson AB.

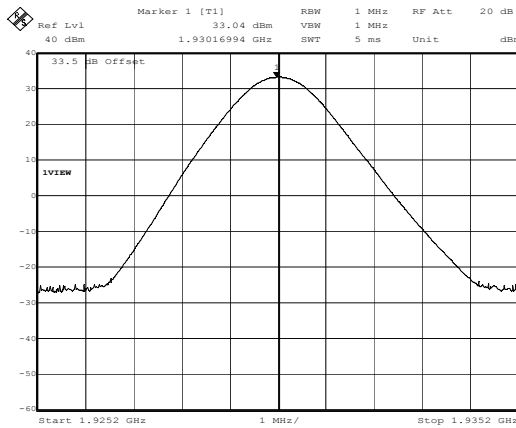
RBS 2308

To: FCC Part 24: 2002

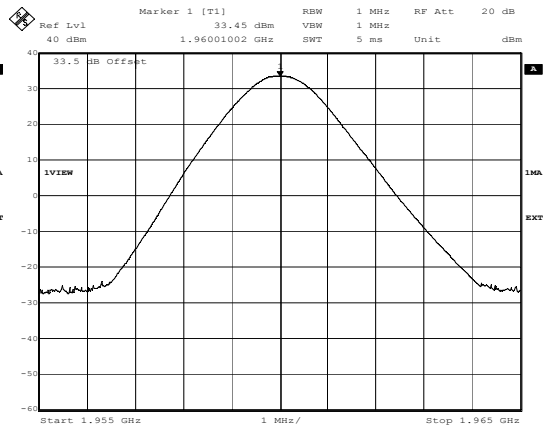
Conducted RF Output Power: Section 2.1046 (a) (continued)

Mode: GMSK – Tx1

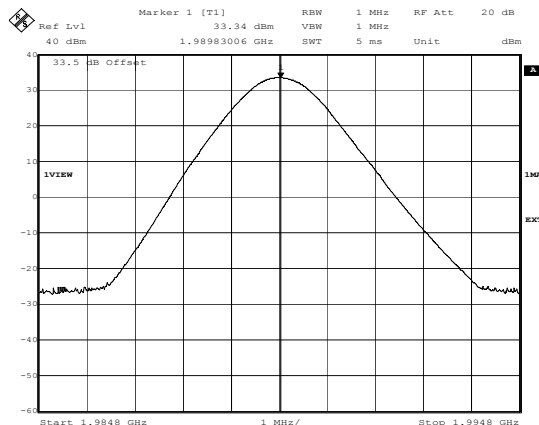
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.16994 | 33.04 |
| Middle | 1960.01002 | 33.45 |
| Top | 1989.83006 | 33.34 |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch112, +33.5dBm Output Power, GMSK Mode Tx1, FCC Part 22.917
 Date: 8.MAY.2003 14:07:01



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch661, +33.5dBm Output Power, GMSK Mode Tx1, FCC Part 22.917
 Date: 8.MAY.2003 14:04:22



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, +33.5dBm Output Power, GMSK Mode Tx1, FCC Part 22.917
 Date: 8.MAY.2003 14:02:50

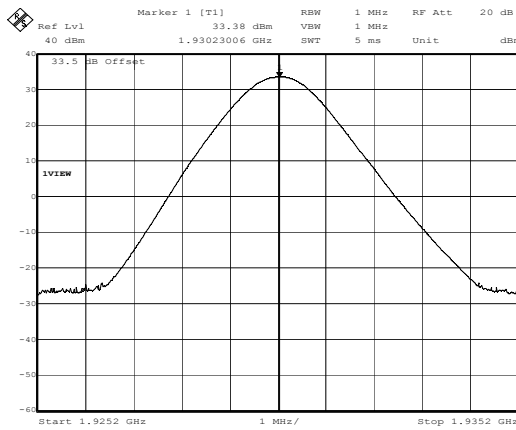
Test Of: Ericsson AB.
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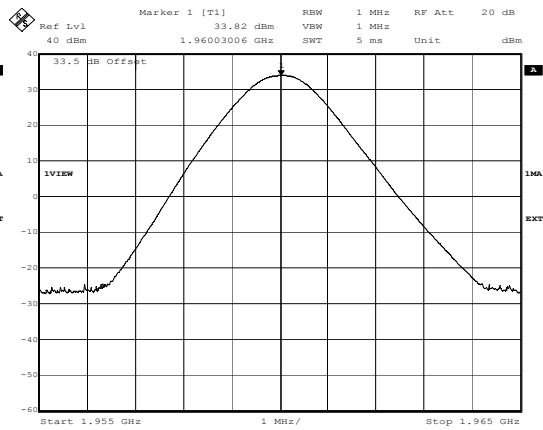
Conducted RF Output Power: Section 2.1046 (a) (continued)

Mode: GMSK – Tx2

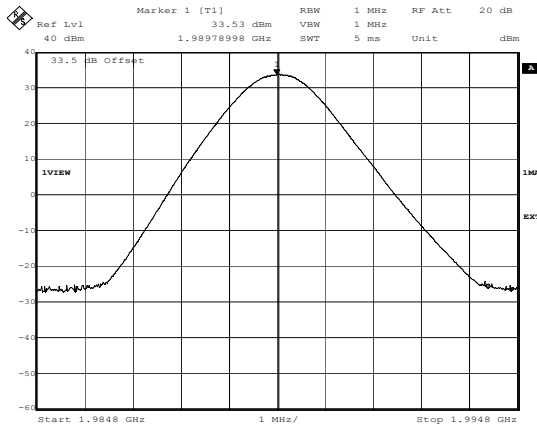
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.23006 | 33.38 |
| Middle | 1960.03006 | 33.82 |
| Top | 1989.78998 | 33.53 |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch512. +33.5dBm Output Power. GMSK Mode TX2. FCC Part 22.917
Date: 8.MAY.2003 14:18:22



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch661. +33.5dBm Output Power. GMSK Mode TX2. FCC Part 22.917
Date: 8.MAY.2003 14:20:44



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch810. +33.5dBm Output Power. GMSK Mode TX2. FCC Part 22.917
Date: 8.MAY.2003 14:23:26

Test Of: Ericsson AB.

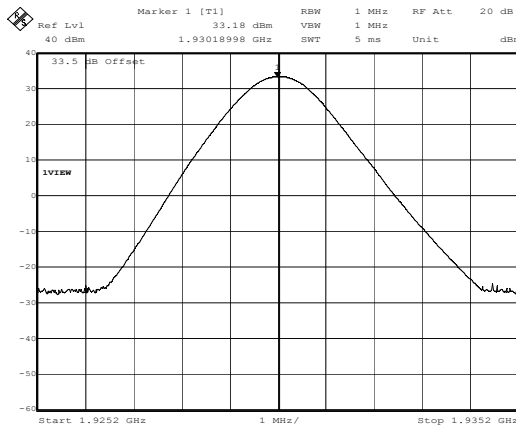
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To: FCC Part 24: 2002

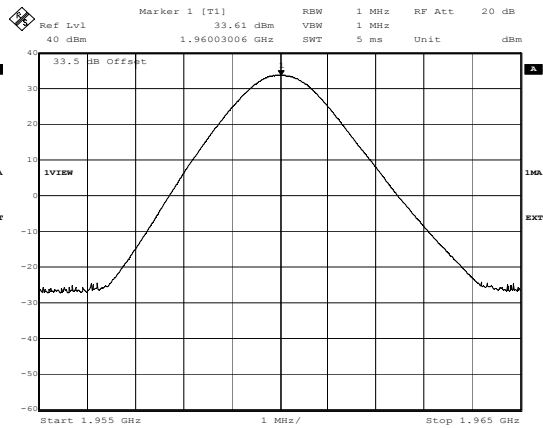
Conducted RF Output Power: Section 2.1046 (a) (continued)

Mode GMSK – Tx3

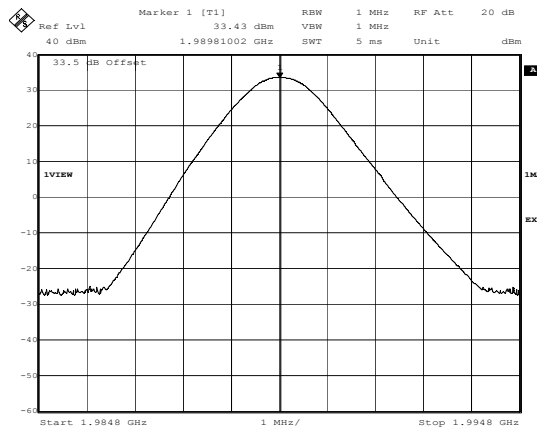
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.18998 | 33.18 |
| Middle | 1960.03006 | 33.61 |
| Top | 1989.81002 | 33.43 |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch112, +33.5dBm Output Power, GMSK Mode TX3, FCC Part 22.917
 Date: 8.MAY.2003 14:58:01



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch661, +33.5dBm Output Power, GMSK Mode TX3, FCC Part 22.917
 Date: 8.MAY.2003 14:59:58



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, +33.5dBm Output Power, GMSK Mode TX3, FCC Part 22.917
 Date: 8.MAY.2003 15:01:40

Test Of: Ericsson AB.

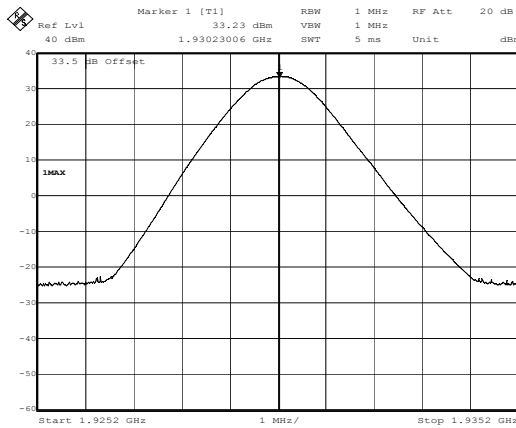
RBS 2308

To: FCC Part 24: 2002

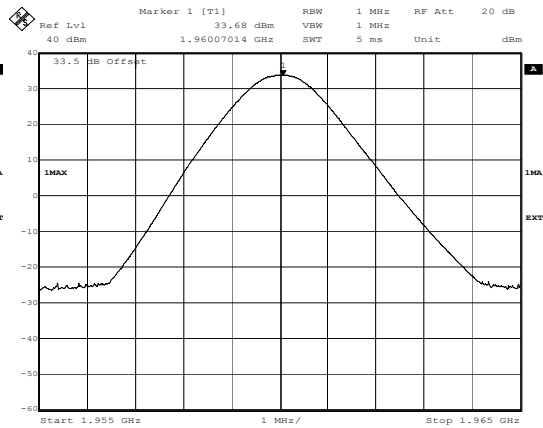
Conducted RF Output Power: Section 2.1046 (a) (continued)

Mode 8PSK (EDGE) – Tx0

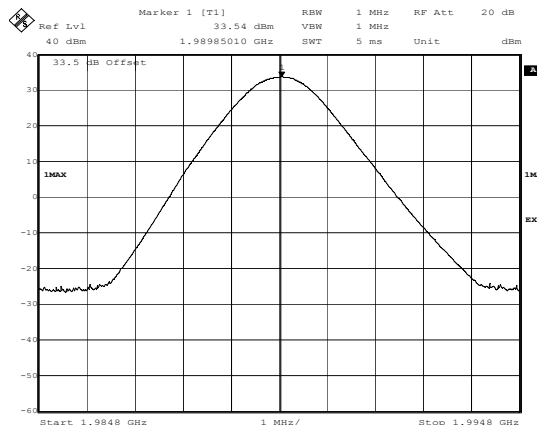
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.23006 | 33.23 |
| Middle | 1960.07014 | 33.68 |
| Top | 1989.85010 | 33.54 |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch112, +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 22.917
 Date: 8.MAY.2003 13:12:49



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch661, +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 22.917
 Date: 8.MAY.2003 11:41:34



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 22.917
 Date: 8.MAY.2003 11:36:52

Test Of: Ericsson AB.

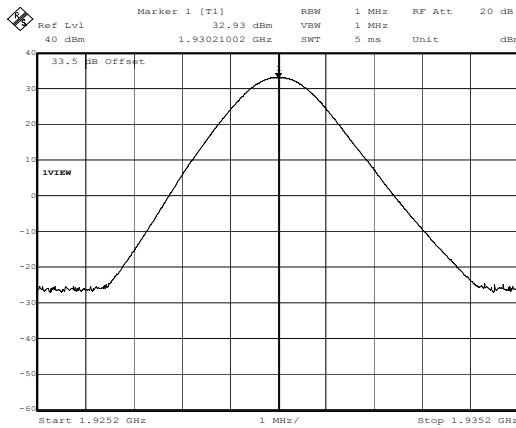
RBS 2308

To: FCC Part 24: 2002

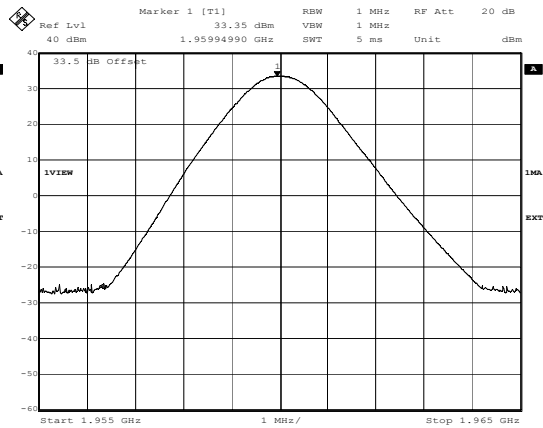
Conducted RF Output Power: Section 2.1046 (a) (continued)

Mode 8PSK (EDGE) – Tx1

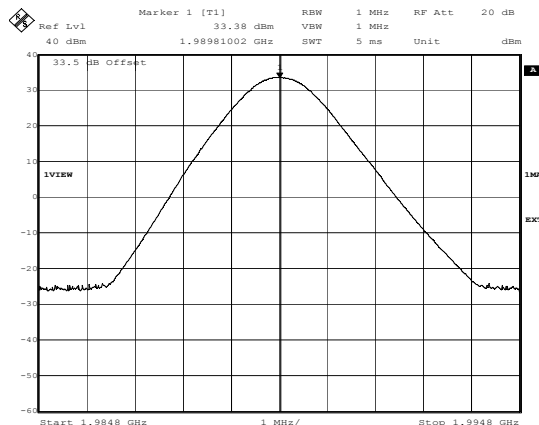
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.21002 | 32.93 |
| Middle | 1959.94990 | 33.35 |
| Top | 1989.81002 | 33.38 |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch112, +33.5dBm Output Power, 8PSK Mode Tx1, FCC Part 22.917
 Date: 8.MAY.2003 13:21:53



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch661, +33.5dBm Output Power, 8PSK Mode Tx1, FCC Part 22.917
 Date: 8.MAY.2003 13:24:11



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, +33.5dBm Output Power, 8PSK Mode Tx1, FCC Part 22.917
 Date: 8.MAY.2003 13:28:03

Test Of: Ericsson AB.

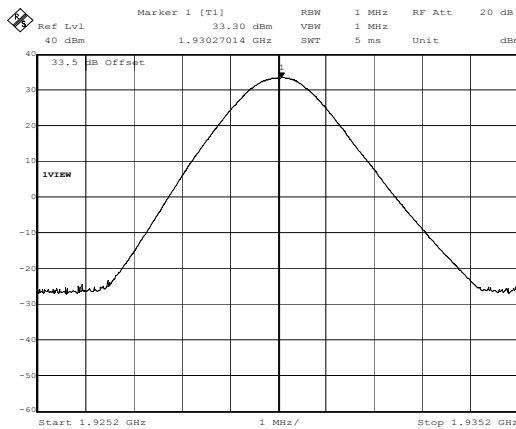
RBS 2308

To: FCC Part 24: 2002

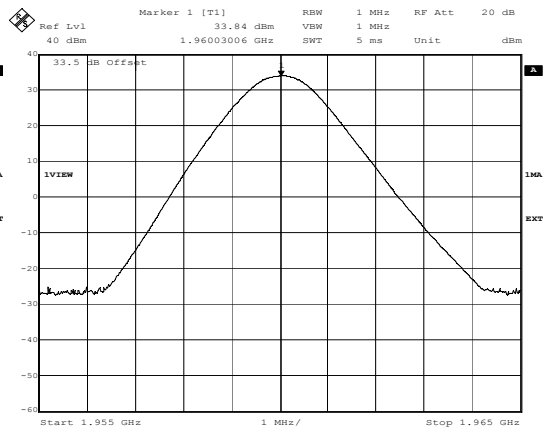
Conducted RF Output Power: Section 2.1046 (a) (continued)

Mode 8PSK (EDGE) – Tx2

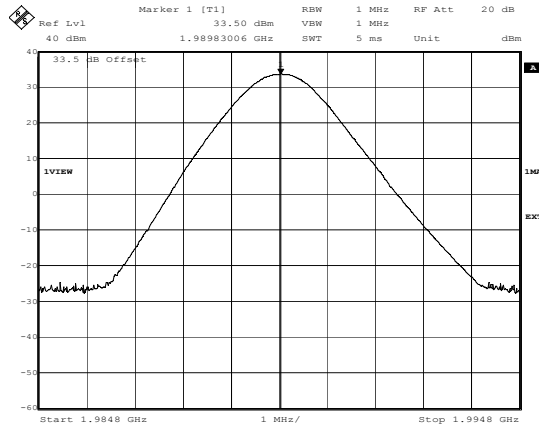
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.27014 | 33.30 |
| Middle | 1960.03006 | 33.84 |
| Top | 1989.83006 | 33.50 |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: CH512, +33.5dBm Output Power, 8PSK Mode TX2, FCC Part 22.917
 Date: 8.MAY.2003 14:37:46



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: CH661, +33.5dBm Output Power, 8PSK Mode TX2, FCC Part 22.917
 Date: 8.MAY.2003 14:40:14



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: CH810, +33.5dBm Output Power, 8PSK Mode TX2, FCC Part 22.917
 Date: 8.MAY.2003 14:42:01

Test Of: Ericsson AB.

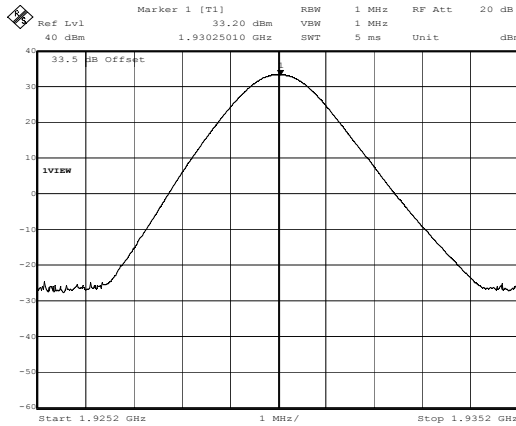
RBS 2308

To: FCC Part 24: 2002

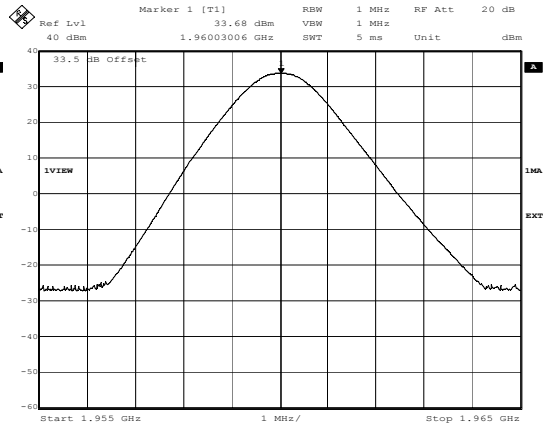
Carrier Output Power: GSM 1900 Mode: Section 2.1046 (a) (continued)

Mode 8PSK (EDGE) – Tx3

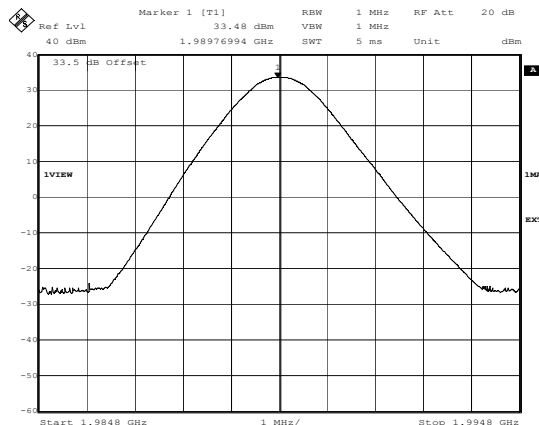
| Channel | Frequency (MHz) | Level (dBm) |
|---------|-----------------|-------------|
| Bottom | 1930.25010 | 33.20 |
| Middle | 1960.03006 | 33.68 |
| Top | 1989.76994 | 33.48 |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch112, +33.5dBm Output Power, 8PSK Mode TX3, FCC Part 22.917
 Date: 8.MAY.2003 14:52:51



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch661, +33.5dBm Output Power, 8PSK Mode TX3, FCC Part 22.917
 Date: 8.MAY.2003 14:50:55



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, +33.5dBm Output Power, 8PSK Mode TX3, FCC Part 22.917
 Date: 8.MAY.2003 14:49:00

Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

7.3. Modulation Characteristics: Section 2.1047

7.3.1. The EUT and spectrum analyser were configured as for conducted antenna port measurements.

7.3.2. Tests were performed on the RBS 2308 Cabinet number 2 to identify the modulation characteristics in accordance with FCC Part 2.1047, with reference to TIA_EIA_603B.

7.3.3. Measurements were made at the ARP output connectors.

7.3.4. The output was connected to a spectrum analyser, which was used in GSM BTS analyser mode, via cables and with 30 dB of attenuation in the path.

7.3.5. Testing was performed on the middle channel only.

Mode GSMK

| GMSK | Phase Error (°) | |
|-------------|-----------------|------|
| | Tx1 | Tx3 |
| Phase Error | 8.96 | 8.05 |
| Max | 8.96 | |

| EDGE | EVM (% RMS) | |
|---------|-------------|------|
| | Tx1 | Tx3 |
| EVM | 3.72 | 3.47 |
| Max EVM | 3.72 | |

| | Origin Offset (dB) | |
|---------------|--------------------|-------|
| | Tx1 | Tx3 |
| Origin Offset | 43.24 | 44.30 |
| Max 00 | 44.30 | |

Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

7.4. Transmitter Frequency Stability (Temperature Variation): Section 24.235

7.4.1. The EUT and spectrum analyser were configured for conducted antenna port measurements.

7.4.2. Measurements were performed on the RBS 2308 Cabinet number 2 to determine the frequency stability of the fundamental emission from the EUT, when subjected to variation of ambient temperature and variation of supply voltage.

7.4.3. Measurements were made at the ARP output connectors.

7.4.4. The output was connected to a spectrum analyser which was used in GSM BTS analyser mode, via cables and with 30 dB of attenuation in the path.

7.4.5. Testing was performed for TX0 & TX2 on the Bottom and Top channels

7.4.6. The ambient temperature was varied from -30°C to +50°C in 10°C steps.

7.4.7. All transceivers were active and evenly spaced out in the frequency band to simulate worst case. The measured transceiver was set up for 1 timeslot and testing was done over 50 bursts.

7.4.8. The measured frequency (MHz) was compared to the upper/lower band edge to provide a margin.

Margin (MHz) = $UBEF_{MHz} - MCF_{MHz}$ (for top channel),

Margin (MHz) = $MCF_{MHz} - LBEF_{MHz}$ (for bottom channel),

where

MCF_{MHz} is the measured carrier frequency in MHz

$LBEF_{MHz}$ is the lower band edge carrier frequency in MHz

$UBEF_{MHz}$ is the upper band edge carrier frequency in MHz.

7.4.9. The client has stated that the authorised frequency band is:-

| | |
|-----------------|----------|
| Lower Band Edge | 1930 MHz |
| Upper Band Edge | 1990 MHz |

Test Of: Ericsson AB.
RBS 2308

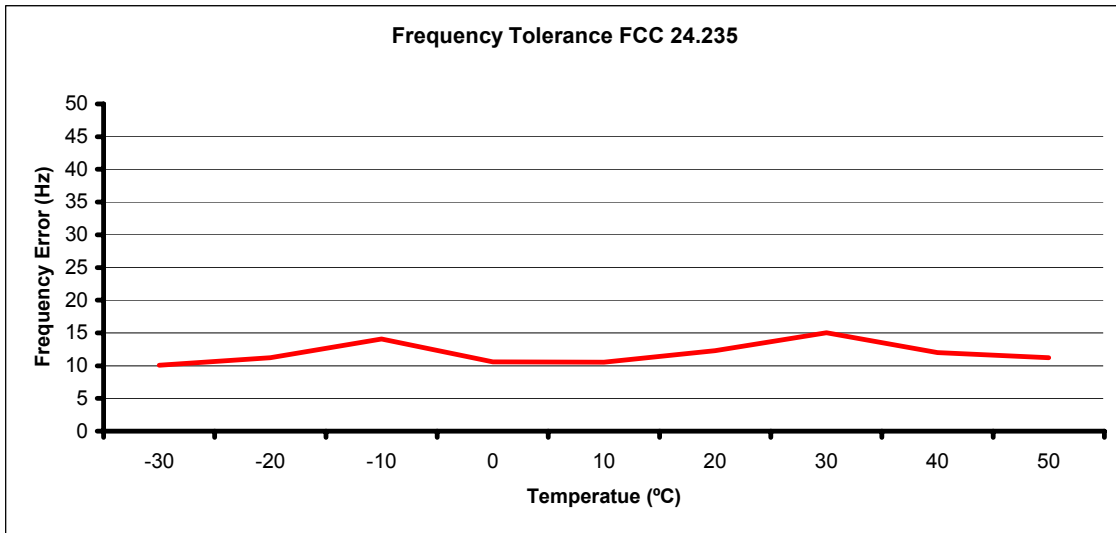
To: FCC Part 24: 2002

Results Mode: GMSK – TX0

Channel: 512 (1930.2 MHz)

| Temp (°C) | Frequency Error (Hz) | Measured Frequency (MHz) | Lower Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|--------------------------|-----------------------------|--------------|----------|
| -30 | 10.07 | 1930.200010 | 1930.0 | 0.200010 | Complied |
| -20 | 11.24 | 1930.200011 | 1930.0 | 0.200011 | Complied |
| -10 | 14.08 | 1930.200014 | 1930.0 | 0.200014 | Complied |
| 0 | 10.59 | 1930.200011 | 1930.0 | 0.200011 | Complied |
| 10 | 10.53 | 1930.200011 | 1930.0 | 0.200011 | Complied |
| 20 | 12.30 | 1930.200012 | 1930.0 | 0.200012 | Complied |
| 30 | 15.05 | 1930.200015 | 1930.0 | 0.200015 | Complied |
| 40 | 12.01 | 1930.200012 | 1930.0 | 0.200012 | Complied |
| 50 | 11.24 | 1930.200011 | 1930.0 | 0.200011 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.
RBS 2308

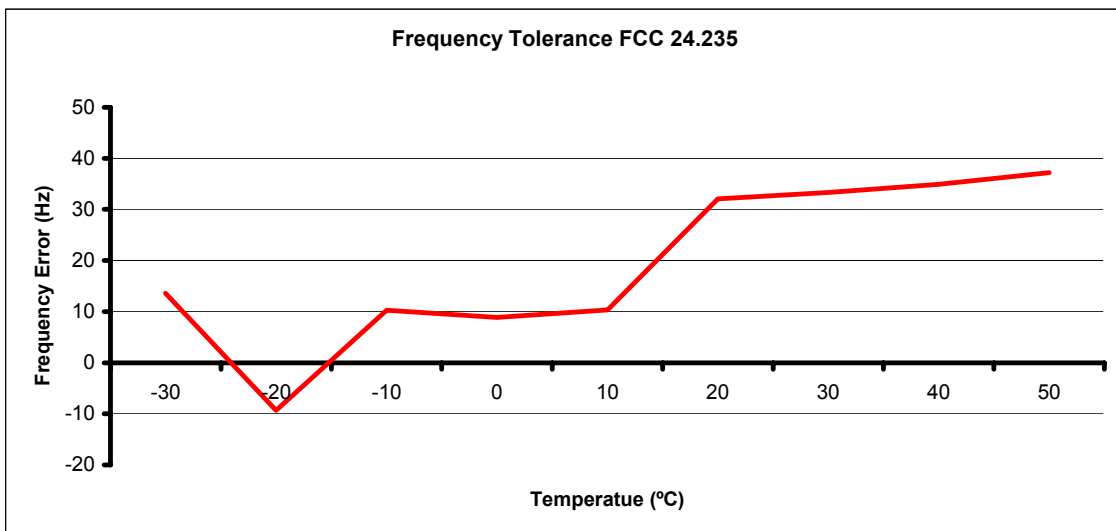
To: FCC Part 24: 2002

Transmitter Frequency Stability (Temperature Variation): Section 24.235 (continued)

Results Mode: GMSK – TX0
Channel: 810 (1989.8 MHz)

| Temp (°C) | Frequency Error (Hz) | Measured Frequency (MHz) | Upper Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|--------------------------|-----------------------------|--------------|----------|
| -30 | 13.56 | 1989.800014 | 1990.0 | 0.199986 | Complied |
| -20 | -9.36 | 1989.799991 | 1990.0 | 0.200009 | Complied |
| -10 | 10.27 | 1989.800010 | 1990.0 | 0.199990 | Complied |
| 0 | 8.85 | 1989.800009 | 1990.0 | 0.199991 | Complied |
| 10 | 10.33 | 1989.800010 | 1990.0 | 0.199990 | Complied |
| 20 | 32.09 | 1989.800032 | 1990.0 | 0.199968 | Complied |
| 30 | 33.32 | 1989.800033 | 1990.0 | 0.199967 | Complied |
| 40 | 34.93 | 1989.800035 | 1990.0 | 0.199965 | Complied |
| 50 | 37.19 | 1989.800037 | 1990.0 | 0.199963 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.
RBS 2308

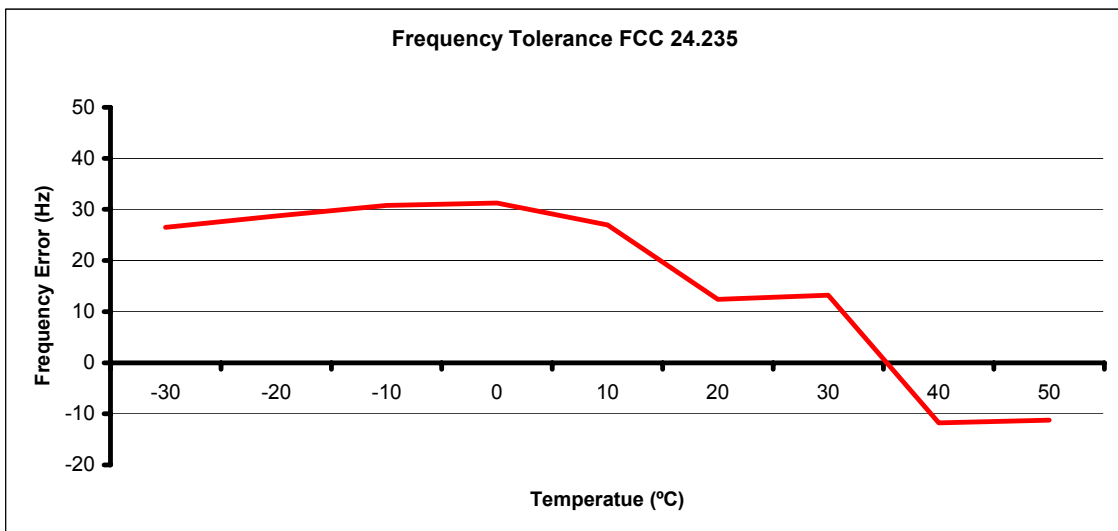
To: FCC Part 24: 2002

Transmitter Frequency Stability (Temperature Variation): Section 24.235 (continued)

Results Mode: EDGE – TX0
Channel: 512 (1930.2 MHz)

| Temp (°C) | Frequency Error (Hz) | Measured Frequency (MHz) | Lower Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|--------------------------|-----------------------------|--------------|----------|
| -30 | 26.47 | 1930.200026 | 1930.0 | 0.200026 | Complied |
| -20 | 28.73 | 1930.200029 | 1930.0 | 0.200029 | Complied |
| -10 | 30.8 | 1930.200031 | 1930.0 | 0.200031 | Complied |
| 0 | 31.25 | 1930.200031 | 1930.0 | 0.200031 | Complied |
| 10 | 26.99 | 1930.200027 | 1930.0 | 0.200027 | Complied |
| 20 | 12.40 | 1930.200012 | 1930.0 | 0.200012 | Complied |
| 30 | 13.24 | 1930.200013 | 1930.0 | 0.200013 | Complied |
| 40 | -11.75 | 1930.199988 | 1930.0 | 0.199988 | Complied |
| 50 | -11.24 | 1930.199989 | 1930.0 | 0.199989 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.
RBS 2308

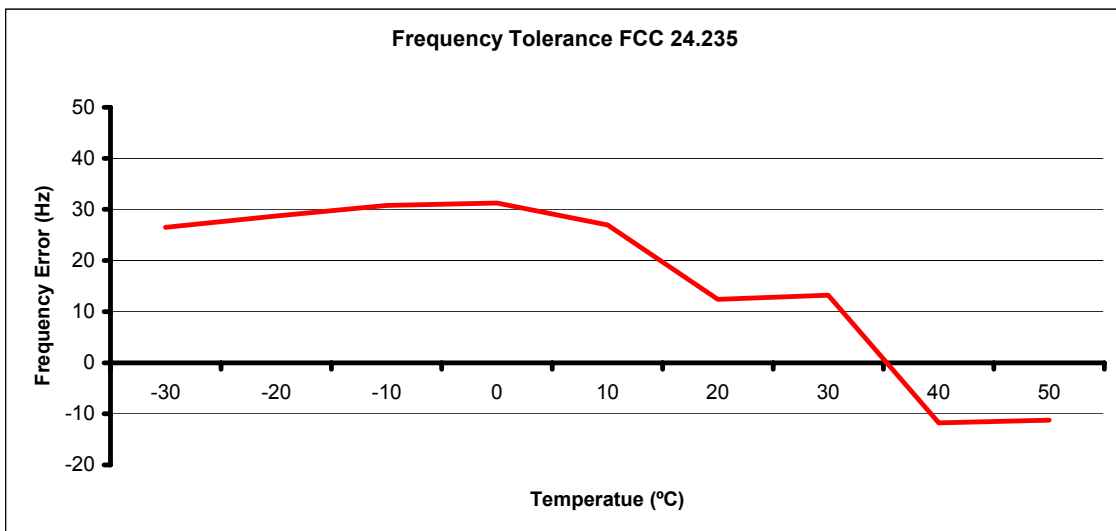
To: FCC Part 24: 2002

Transmitter Frequency Stability (Temperature Variation): Section 24.235 (continued)

Results Mode: EDGE – TX0
Channel: 810 (1989.8 MHz)

| Temp (°C) | Frequency Error (Hz) | Measured Frequency (MHz) | Upper Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|--------------------------|-----------------------------|--------------|----------|
| -30 | 21.25 | 1989.800021 | 1990.0 | 0.199979 | Complied |
| -20 | 21.31 | 1989.800021 | 1990.0 | 0.199979 | Complied |
| -10 | 23.25 | 1989.800023 | 1990.0 | 0.199977 | Complied |
| 0 | 20.34 | 1989.800020 | 1990.0 | 0.199980 | Complied |
| 10 | 23.18 | 1989.800023 | 1990.0 | 0.199977 | Complied |
| 20 | 20.34 | 1989.800020 | 1990.0 | 0.199980 | Complied |
| 30 | 23.31 | 1989.800023 | 1990.0 | 0.199977 | Complied |
| 40 | 20.73 | 1989.800021 | 1990.0 | 0.199979 | Complied |
| 50 | 20.60 | 1989.800021 | 1990.0 | 0.199979 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.
RBS 2308

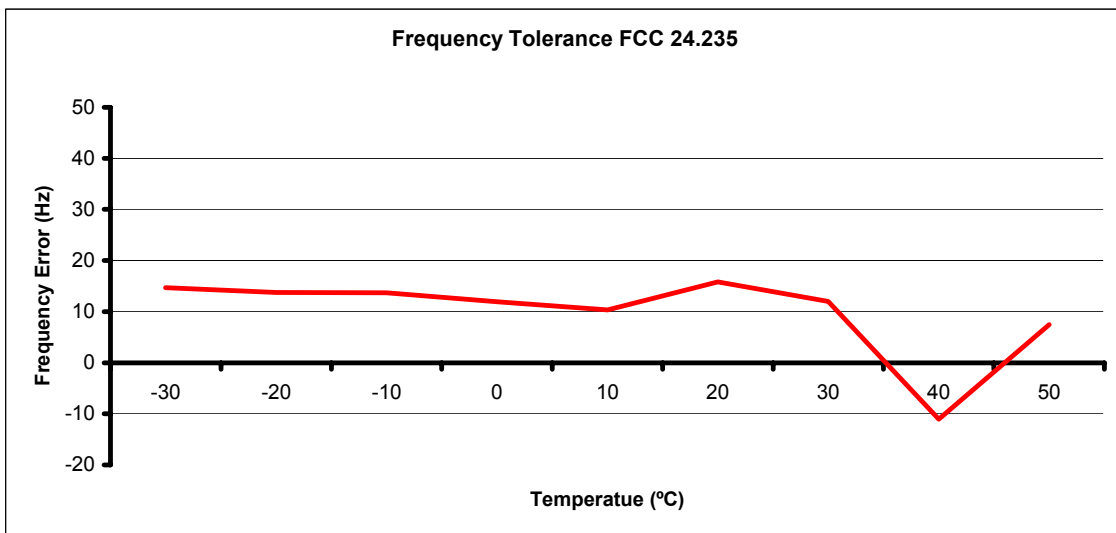
To: FCC Part 24: 2002

Transmitter Frequency Stability (Temperature Variation): Section 24.235 (continued)

Results Mode: GMSK – TX2
Channel: 512 (1930.2 MHz)

| Temp (°C) | Frequency Error (Hz) | Measured Frequency (MHz) | Lower Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|--------------------------|-----------------------------|--------------|----------|
| -30 | 14.72 | 1930.200015 | 1930.0 | 0.200015 | Complied |
| -20 | 13.75 | 1930.200014 | 1930.0 | 0.200014 | Complied |
| -10 | 13.69 | 1930.200014 | 1930.0 | 0.200014 | Complied |
| 0 | 11.95 | 1930.200012 | 1930.0 | 0.200012 | Complied |
| 10 | 10.33 | 1930.200100 | 1930.0 | 0.200010 | Complied |
| 20 | 15.85 | 1930.200016 | 1930.0 | 0.200016 | Complied |
| 30 | 12.01 | 1930.200012 | 1930.0 | 0.200012 | Complied |
| 40 | -11.04 | 1930.199989 | 1930.0 | 0.199989 | Complied |
| 50 | 7.43 | 1930.200007 | 1930.0 | 0.200007 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.
RBS 2308

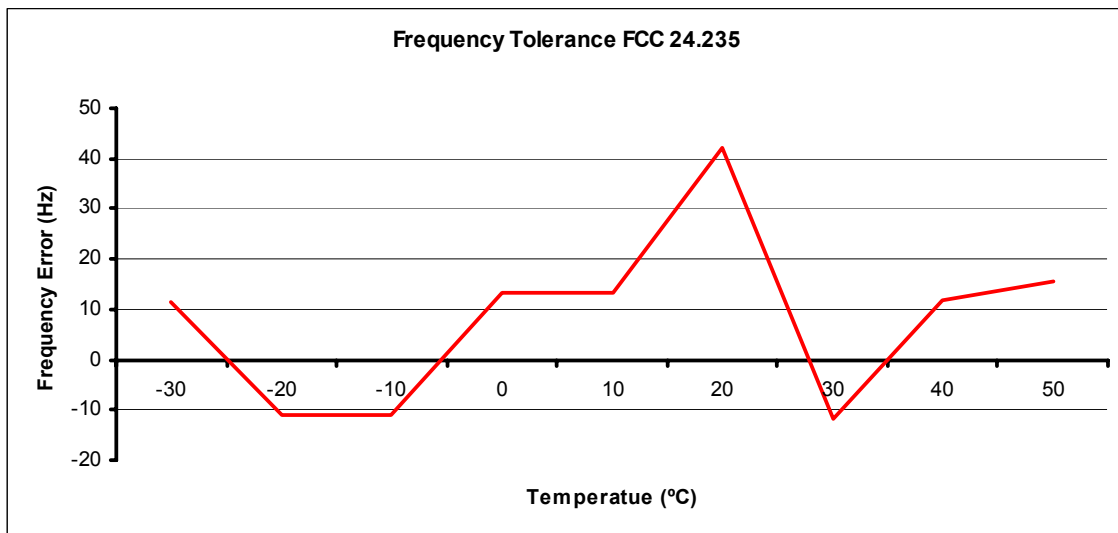
To: FCC Part 24: 2002

Transmitter Frequency Stability (Temperature Variation): Section 24.235 (continued)

Results Mode: GMSK – TX2
Channel: 810 (1989.8 MHz)

| Temp (°C) | Frequency Error (Hz) | Lower Band Edge Limit (MHz) | Upper Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|-----------------------------|-----------------------------|--------------|----------|
| -30 | 11.36 | 1989.800011 | 1990.0 | 0.199989 | Complied |
| -20 | -10.91 | 1989.799989 | 1990.0 | 0.200011 | Complied |
| -10 | -10.98 | 1989.799989 | 1990.0 | 0.200011 | Complied |
| 0 | 13.37 | 1989.800013 | 1990.0 | 0.199987 | Complied |
| 10 | 13.30 | 1989.800013 | 1990.0 | 0.199987 | Complied |
| 20 | 42.30 | 1989.800042 | 1990.0 | 0.199958 | Complied |
| 30 | -11.82 | 1989.799988 | 1990.0 | 0.200012 | Complied |
| 40 | 11.88 | 1989.800012 | 1990.0 | 0.200012 | Complied |
| 50 | 15.50 | 1989.800016 | 1990.0 | 0.199984 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.
RBS 2308

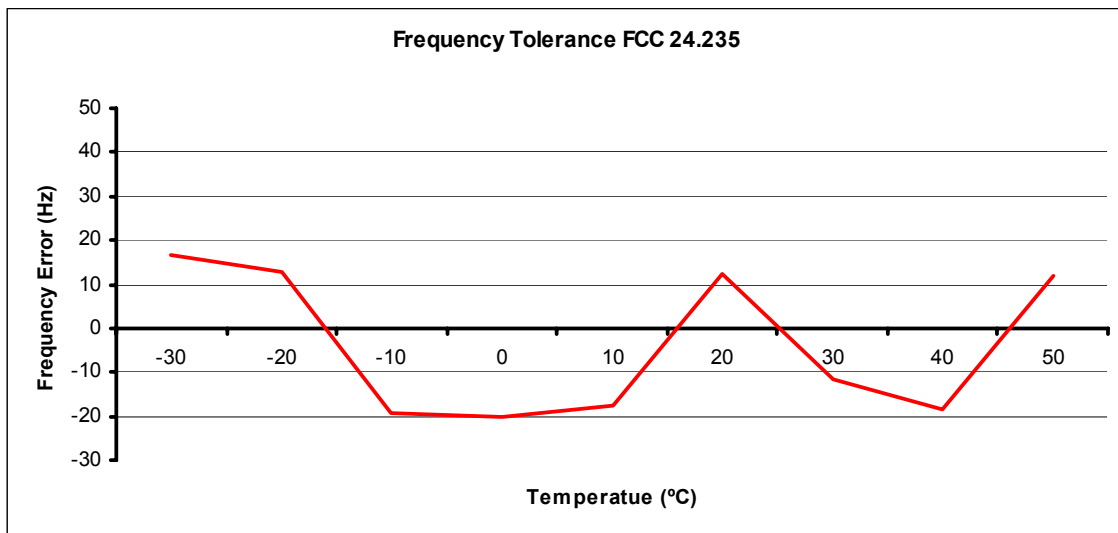
To: FCC Part 24: 2002

Transmitter Frequency Stability (Temperature Variation): Section 24.235 (continued)

Results Mode: EDGE – TX2
Channel: 512 (1930.2 MHz)

| Temp (°C) | Frequency Error (Hz) | Measured Frequency (MHz) | Lower Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|--------------------------|-----------------------------|--------------|----------|
| -30 | 16.47 | 1930.200016 | 1930.0 | 0.200016 | Complied |
| -20 | 12.85 | 1930.200013 | 1930.0 | 0.200013 | Complied |
| -10 | -19.11 | 1930.199981 | 1930.0 | 0.199981 | Complied |
| 0 | -20.21 | 1930.199980 | 1930.0 | 0.199980 | Complied |
| 10 | -17.63 | 1930.199982 | 1930.0 | 0.199982 | Complied |
| 20 | 12.24 | 1930.200012 | 1930.0 | 0.200012 | Complied |
| 30 | -11.43 | 1930.200011 | 1930.0 | 0.200011 | Complied |
| 40 | -18.27 | 1930.199982 | 1930.0 | 0.199982 | Complied |
| 50 | 11.75 | 1930.200012 | 1930.0 | 0.200012 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.
RBS 2308

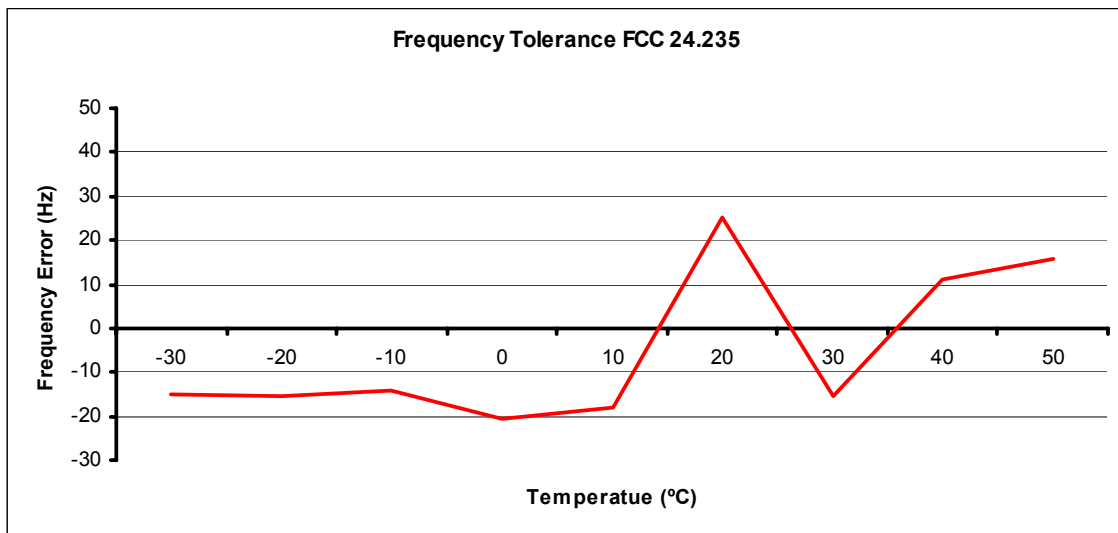
To: FCC Part 24: 2002

Transmitter Frequency Stability (Temperature Variation): Section 24.235 (continued)

Results Mode: EDGE – TX2
Channel: 810 (1989.8 MHz)

| Temp (°C) | Frequency Error (Hz) | Measured Frequency (MHz) | Upper Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------|----------------------|--------------------------|-----------------------------|--------------|----------|
| -30 | -15.24 | 1989.799985 | 1990.0 | 0.200015 | Complied |
| -20 | -15.30 | 1989.799985 | 1990.0 | 0.200015 | Complied |
| -10 | -14.08 | 1989.799986 | 1990.0 | 0.200014 | Complied |
| 0 | -20.79 | 1989.799979 | 1990.0 | 0.200021 | Complied |
| 10 | -18.21 | 1989.799982 | 1990.0 | 0.200018 | Complied |
| 20 | 25.12 | 1989.800025 | 1990.0 | 0.199975 | Complied |
| 30 | -15.63 | 1989.799984 | 1990.0 | 0.200016 | Complied |
| 40 | 11.24 | 1989.800011 | 1990.0 | 0.199989 | Complied |
| 50 | 15.82 | 1989.800016 | 1990.0 | 0.199984 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

7.5. Transmitter Frequency Stability (Voltage Variation): Section 24.235

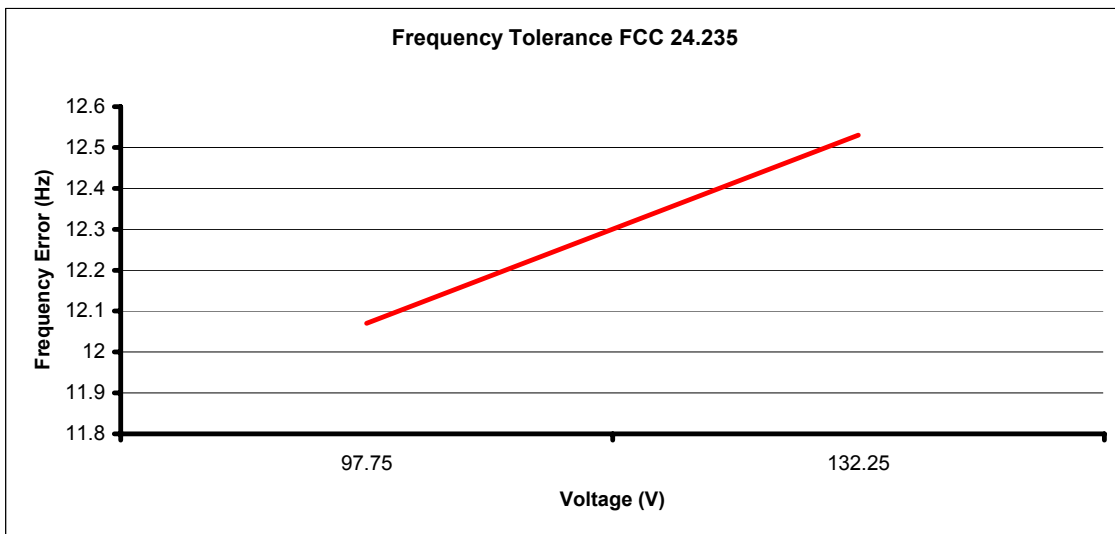
7.5.1. The EUT was configured as for frequency stability measurements as described in Section 13 of this report.

7.5.2. Tests were performed to identify the maximum frequency error of the EUT with variations in nominal operating voltage.

Results Mode: GMSK – TX0
Channel: 512 (1930.2 MHz)

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 12.07 | 1930.200012 | 0.200012 | Complied |
| 132.25 | 12.53 | 1930.200013 | 0.200013 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

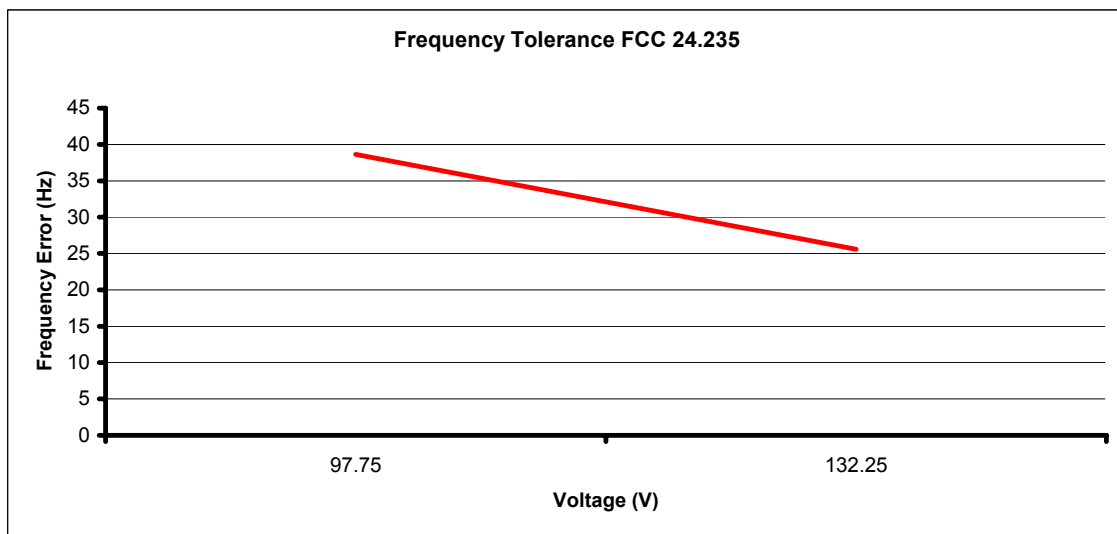
Transmitter Frequency Stability (Voltage Variation): Section 24.235
(Continued)

Results Mode: GMSK – TX0

Channel: 810 (1989.8 MHz)

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 38.61 | 1989.800039 | 0.199961 | Complied |
| 132.25 | 25.57 | 1989.800026 | 0.199974 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

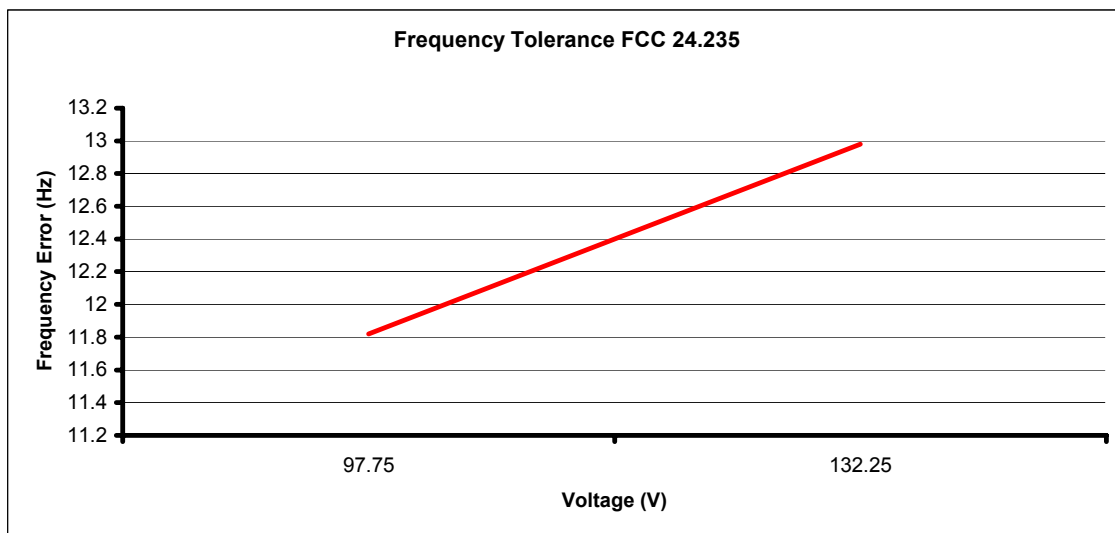
**Transmitter Frequency Stability (Voltage Variation): Section 24.235
(Continued)**

Results Mode: EGDE – TX0

Channel: 512 (1930.2 MHz)

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 11.82 | 1930.200012 | 0.200012 | Complied |
| 132.25 | 12.98 | 1930.200013 | 0.200013 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.
RBS 2308

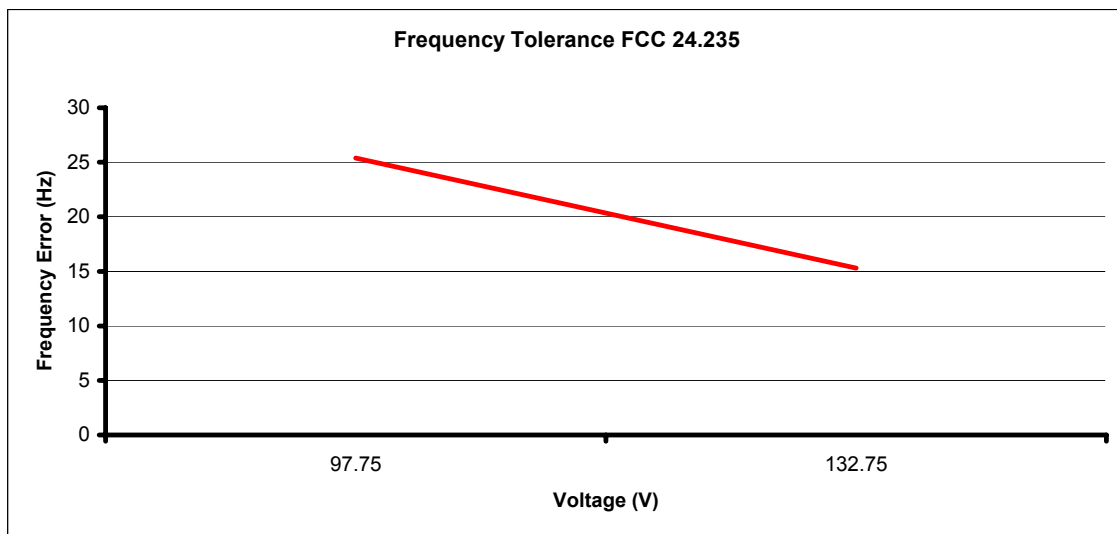
To: FCC Part 24: 2002

**Transmitter Frequency Stability (Voltage Variation): Section 24.235
(Continued)**

**Results Mode: EDGE – TX0
Channel: 810 (1989.8 MHz)**

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 25.38 | 1989.800025 | 0.199975 | Complied |
| 132.75 | 15.3 | 1989.800015 | 0.199985 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.
RBS 2308

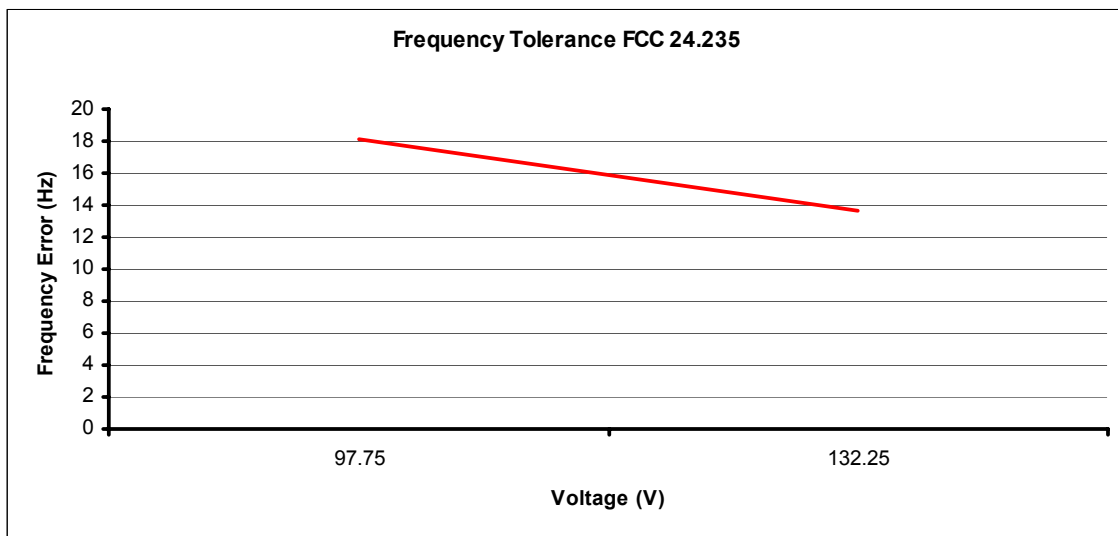
To: FCC Part 24: 2002

**Transmitter Frequency Stability (Voltage Variation): Section 24.235
(Continued)**

**Results Mode: GMSK – TX2
Channel: 512 (1930.2 MHz)**

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 18.08 | 1930.200018 | 0.200018 | Complied |
| 132.25 | 13.62 | 1930.200014 | 0.200014 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.
RBS 2308

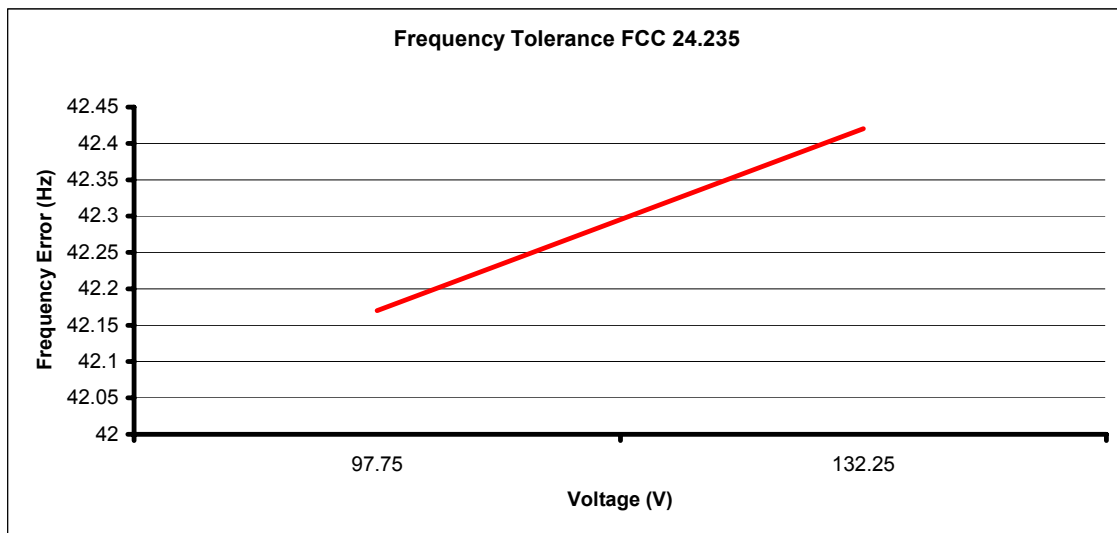
To: FCC Part 24: 2002

**Transmitter Frequency Stability (Voltage Variation): Section 24.235
(Continued)**

**Results Mode: GMSK – TX2
Channel: 810 (1989.8 MHz)**

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 42.17 | 1989.800042 | 0.199958 | Complied |
| 132.25 | 42.42 | 1989.800042 | 0.199958 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.
RBS 2308

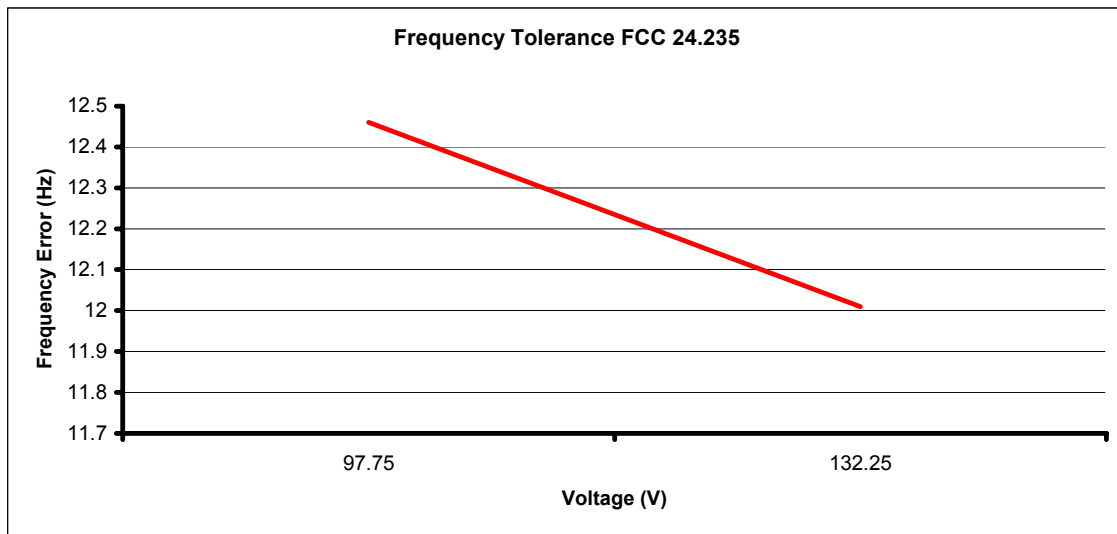
To: FCC Part 24: 2002

**Transmitter Frequency Stability (Voltage Variation): Section 24.235
(Continued)**

**Results Mode: EGDE – TX2
Channel: 512 (1930.2 MHz)**

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 12.46 | 1930.200012 | 0.200012 | Complied |
| 132.25 | 12.01 | 1930.200012 | 0.200012 | Complied |

Frequency Variation From 1930.2 MHz



Test Of: Ericsson AB.
RBS 2308

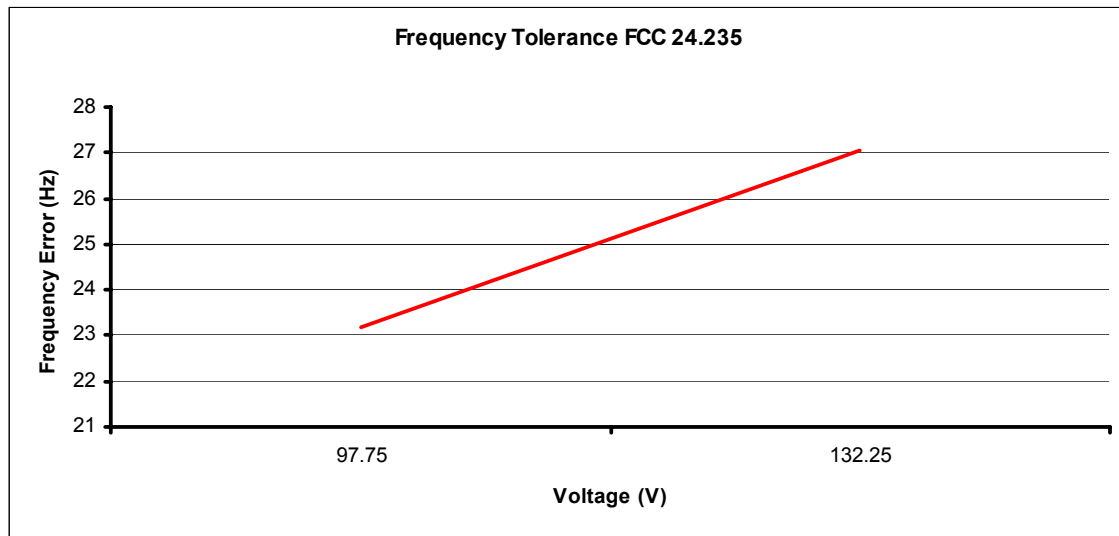
To: FCC Part 24: 2002

**Transmitter Frequency Stability (Voltage Variation): Section 24.235
(Continued)**

**Results Mode: EDGE – TX2
Channel: 810 (1989.8 MHz)**

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Margin From Band Edge (MHz) | Result |
|-------------|----------------------|--------------------------|-----------------------------|----------|
| 97.75 | 23.18 | 1989.800023 | 0.199977 | Complied |
| 132.25 | 27.06 | 1989.800027 | 0.199973 | Complied |

Frequency Variation From 1989.8 MHz



Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

7.6. Transmitter Conducted Measurements: GSM 1900 Mode (Occupied Bandwidth): Sections 2.1049

7.6.1. The EUT and spectrum analyser were configured for conducted antenna port measurements.

7.6.2. Tests were performed to identify the Occupied Bandwidth in accordance with FCC Part 2.1049 with reference to TIA_EIA_603B.

7.6.3. Measurements were made at the ARP output connectors.

7.6.4. The output was connected to a spectrum analyser via cables and with 30 dB of attenuation in the path,

7.6.5. The path loss was entered into the spectrum analyser as a reference level offset.

7.6.6. In GMSK mode this unit must use a reduced transmit power by 4 dB to 29.5 dBm for the channels adjacent to each frequency block edge in order to show compliance.

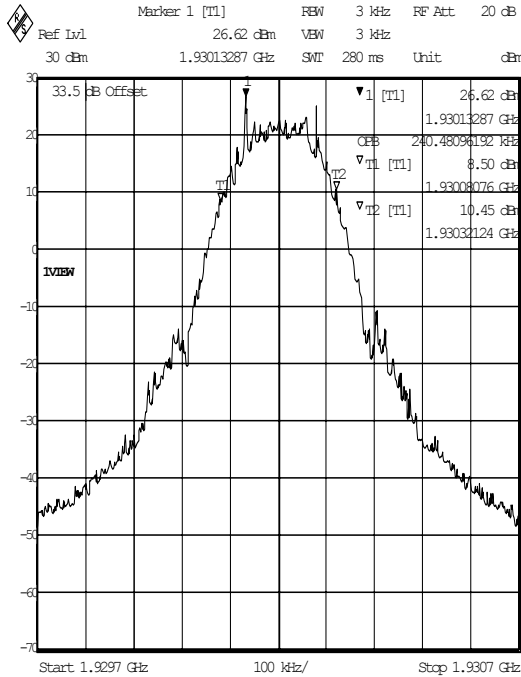
7.6.7. In EDGE mode this unit must use a reduced transmit power by 4 dB to 29.5 dBm for the channels adjacent to each frequency block edge in order to show compliance.

7.6.8. 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.

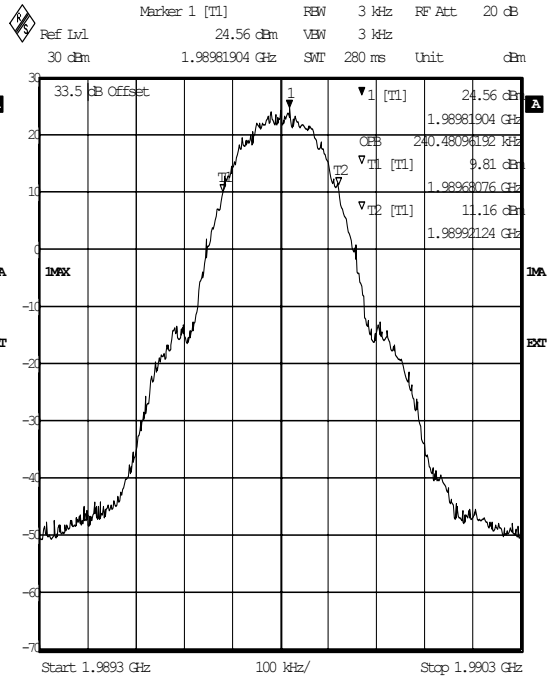
Test Of: Ericsson AB.

RBS 2308

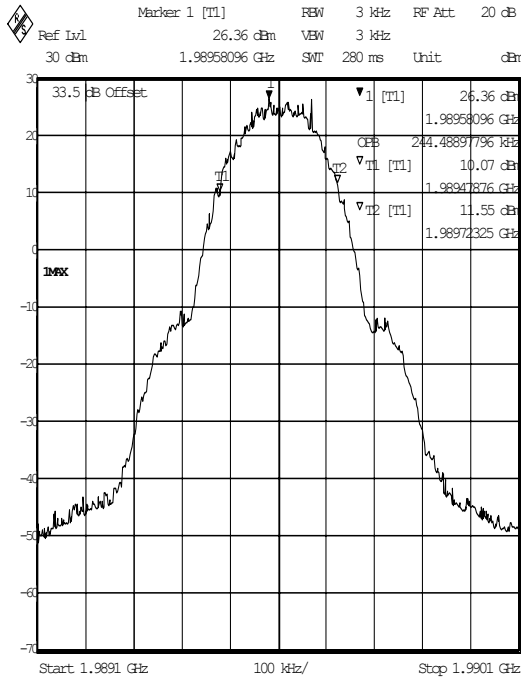
To: FCC Part 24: 2002



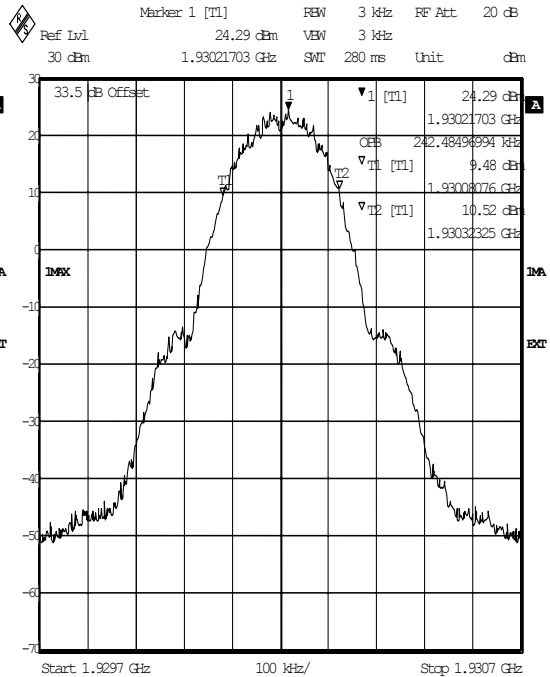
Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch512, OEB 99% Occupied Bandwidth, +33.5dBm Output Power, GM
 SK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 18:47:18



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, OEB 99% Occupied Bandwidth, +31.5dBm Output Power, GM
 SK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 19:12:14



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch809, OEB 99% Occupied Bandwidth, +33.5dBm Output Power, GM
 SK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 19:21:28

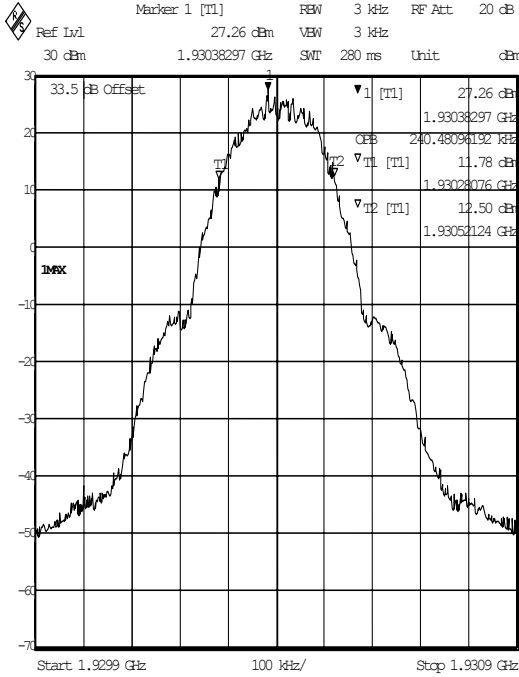


Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch512, OEB 99% Occupied Bandwidth, +31.5dBm Output Power, GM
 SK Mode TX2, FCC Part 24.238
 Date: 8.MAY.2003 19:33:46

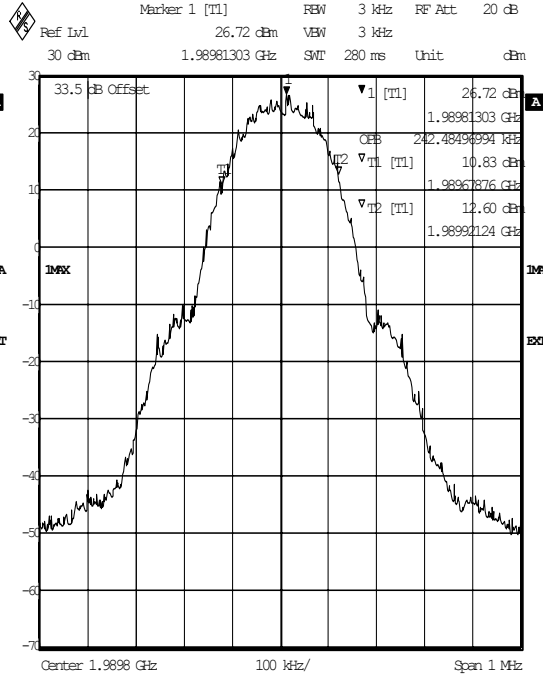
Test Of: Ericsson AB.

RBS 2308

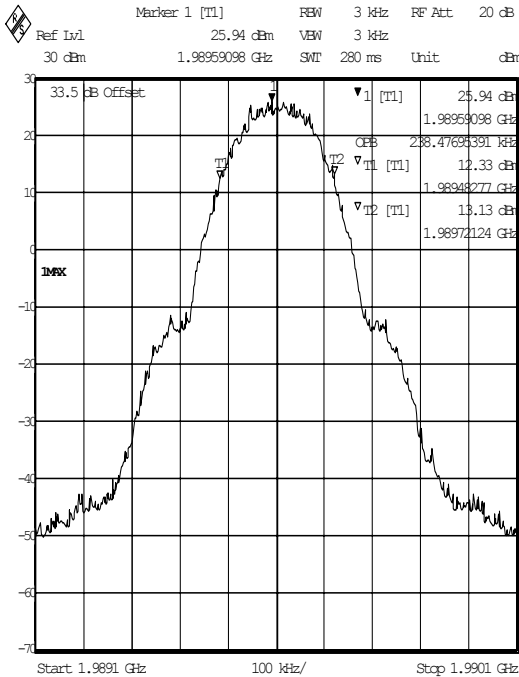
To: FCC Part 24: 2002



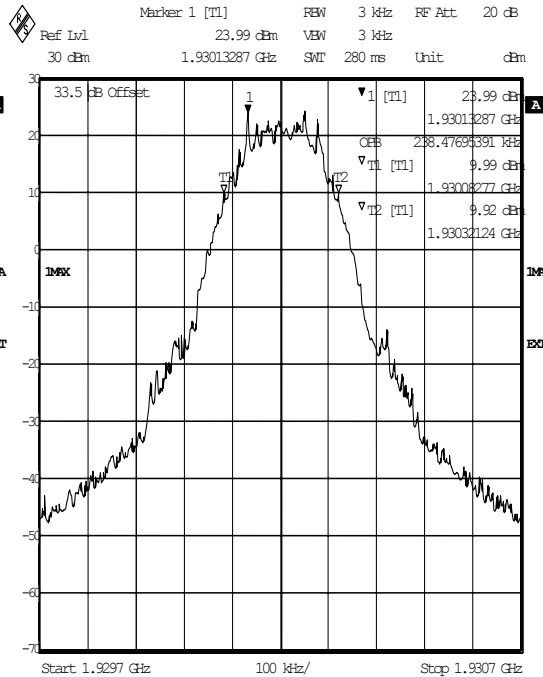
Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch513, OEB 99% Occupied Bandwidth, +33.5dBm Output Power, GM
 SK Mode TX2, FCC Part 24.238
 Date: 8.MAY.2003 19:37:40



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, OEB 99% Occupied Bandwidth, +29.5dBm Output Power, GM
 SK Mode TX2, FCC Part 24.238
 Date: 8.MAY.2003 19:53:17



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch809, OEB 99% Occupied Bandwidth, +33.5dBm Output Power, GM
 SK Mode TX2, FCC Part 24.238
 Date: 8.MAY.2003 19:57:59

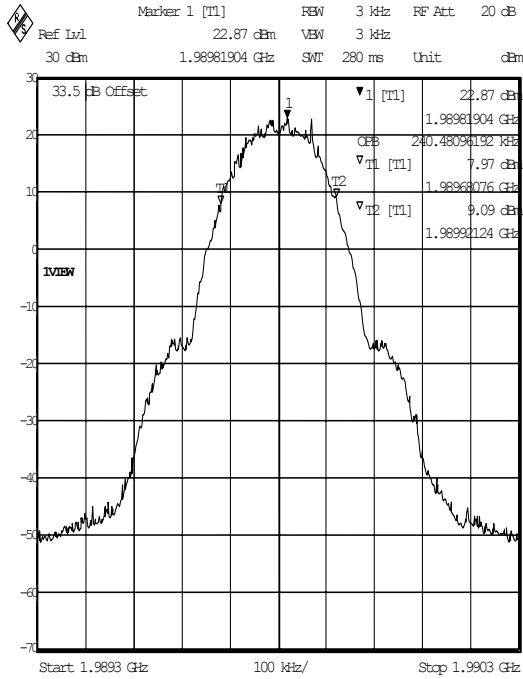


Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch512, OEB 99% Occupied Bandwidth, +33.5dBm Output Power, 8P
 SK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 19:02:17

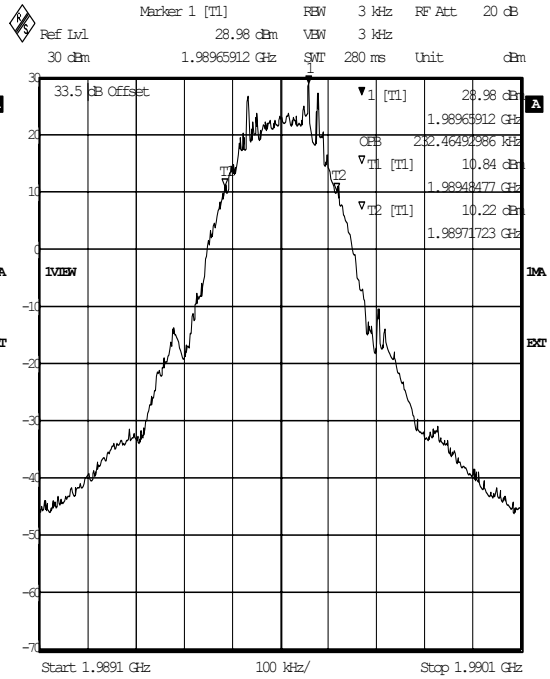
Test Of: Ericsson AB.

RBS 2308

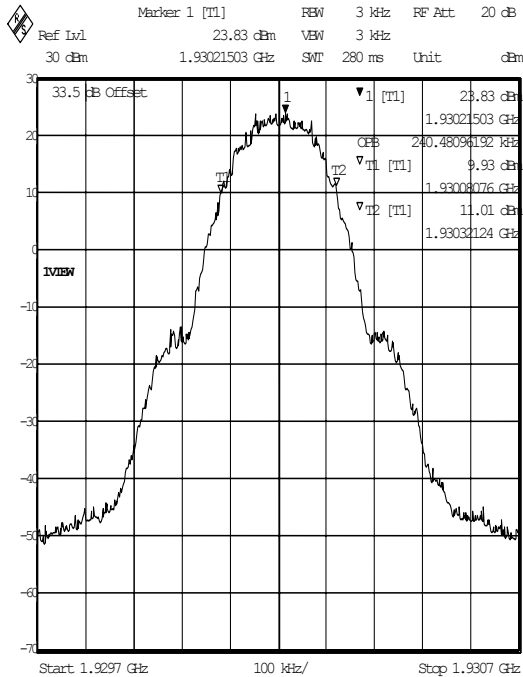
To: FCC Part 24: 2002



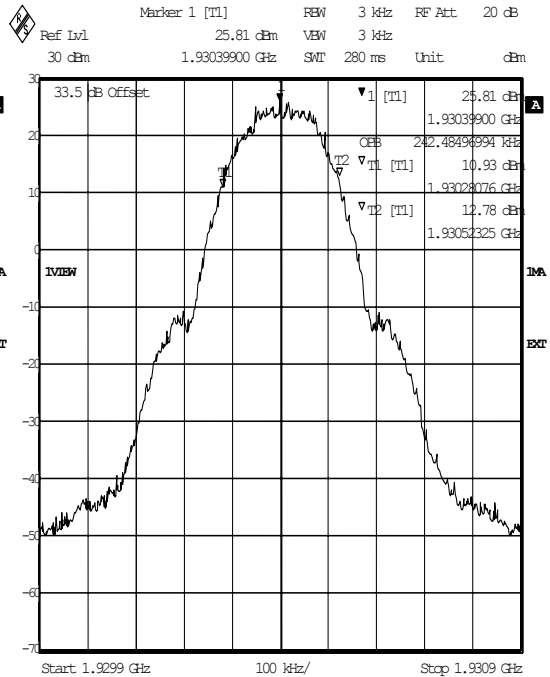
Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch810, CW 99% Occupied Bandwidth, +29.5dBm Output Power, 8P
 SK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 18:18:59



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch809, CW 99% Occupied Bandwidth, +33.5dBm Output Power, 8P
 SK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 18:34:22



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch512, CW 99% Occupied Bandwidth, +31.5dBm Output Power, 8P
 SK Mode TX2, FCC Part 24.238
 Date: 8.MAY.2003 20:25:25

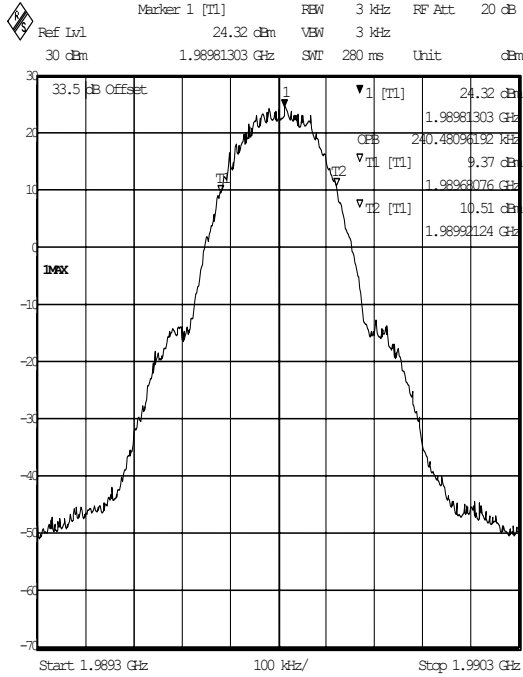


Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch513, CW 99% Occupied Bandwidth, +33.5dBm Output Power, 8P
 SK Mode TX2, FCC Part 24.238
 Date: 8.MAY.2003 20:35:12

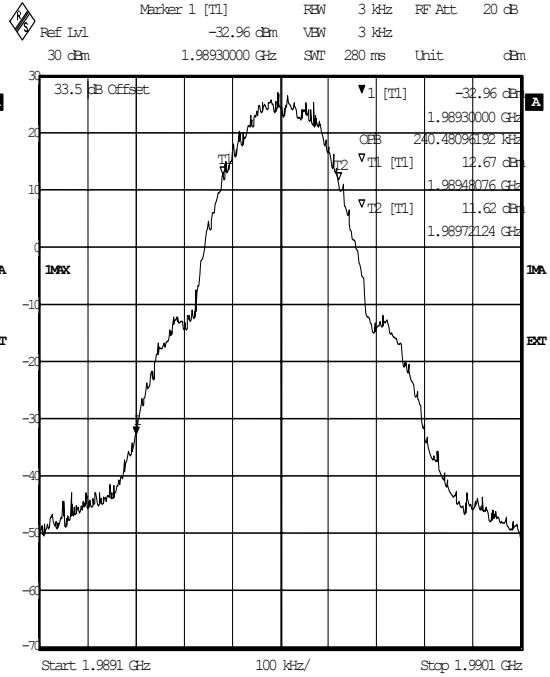
Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch810. CBW 99% Occupied Bandwidth. +31.5dBm Output Power. 8P
 SK Mode TX2. FCC Part 24.238
 Date: 8.MAY.2003 20:04:58



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch809. CBW 99% Occupied Bandwidth. +33.5dBm Output Power. 8P
 SK Mode TX2. FCC Part 24.238
 Date: 8.MAY.2003 20:09:23

Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

7.7. Transmitter Conducted Measurements: (Out of Band Emissions - Spurious): Section 2.1051/24.238 (a)

7.7.1. The EUT and spectrum analyser were configured as for conducted antenna port measurements.

7.7.2. Tests were performed to identify out of band emissions in accordance with FCC Part 2.1051 and 24.238 (a) with reference to TIA_EIA_603B.

7.7.3. Measurements were made at the ARP output connectors

7.7.4. The output was connected to a spectrum analyser via cables, attenuation and an RF box containing various filters.

7.7.5. The path loss was entered into the spectrum analyser as a reference level offset.

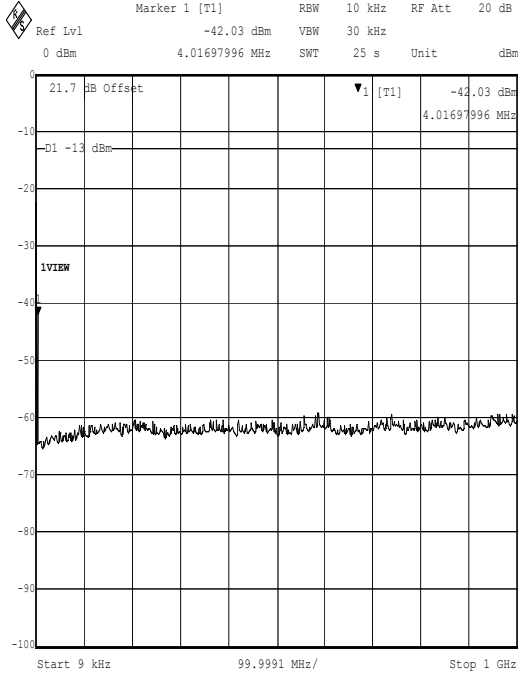
7.7.6. FCC Part 24.238 (a) states that emissions shall be attenuated by at least $43 + 10 \log(P)$ dB below the transmitter power, where (P) is the power measured at the EUT antenna terminals.

Test Of: Ericsson AB.

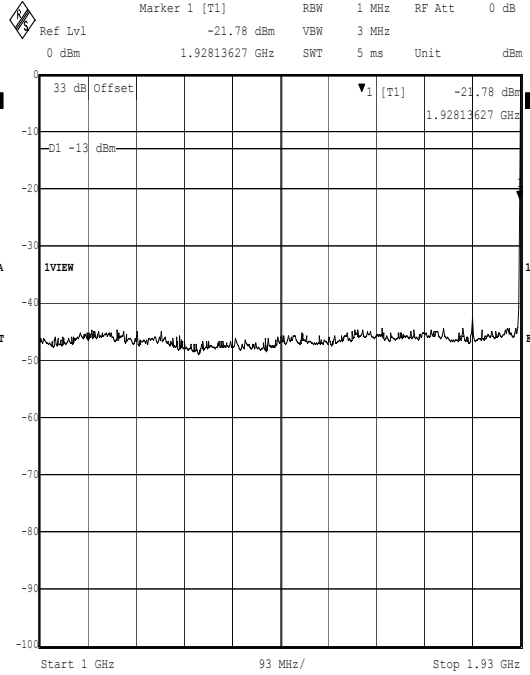
RBS 2308

To: FCC Part 24: 2002

GMSK, TX0 CH 513 and TX1 CH 538



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:45:51



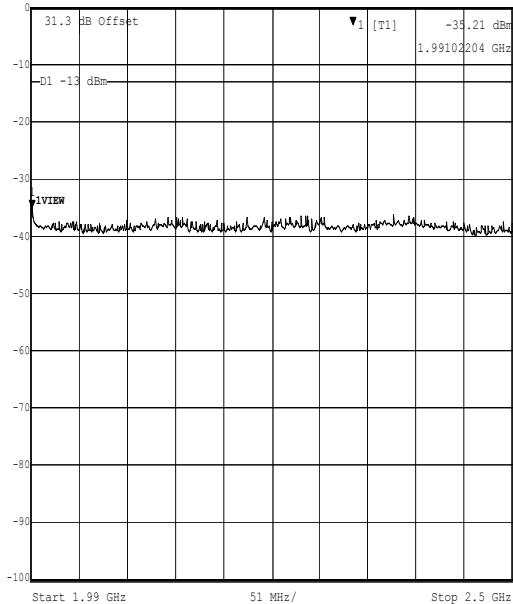
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:48:58

Test Of: Ericsson AB.

RBS 2308

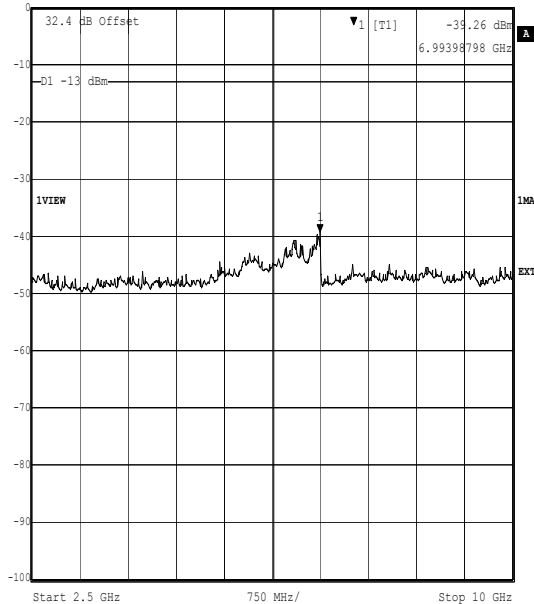
To: FCC Part 24: 2002

Marker 1 [T1] RBW 1 MHz RF Att 10 dB
Ref Lvl -35.21 dBm VBW 3 MHz
0 dBm 1.99102204 GHz SWT 5 ms Unit dBm



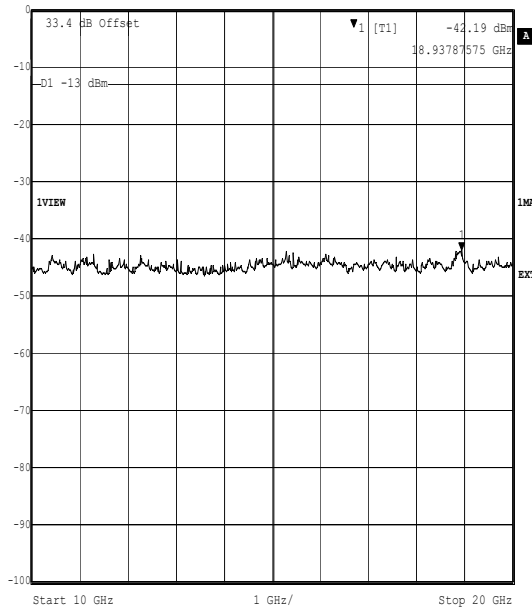
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
GMSK Mode TX0_TX1. FCC Part 24.238
Date: 9.MAY.2003 16:50:47

Marker 1 [T1] RBW 1 MHz RF Att 0 dB
Ref Lvl -39.26 dBm VBW 3 MHz
0 dBm 6.99398798 GHz SWT 43 ms Unit dBm



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
GMSK Mode TX0_TX1. FCC Part 24.238
Date: 9.MAY.2003 16:52:39

Marker 1 [T1] RBW 1 MHz RF Att 0 dB
Ref Lvl -42.19 dBm VBW 3 MHz
0 dBm 18.93787575 GHz SWT 58 ms Unit dBm



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
GMSK Mode TX0_TX1. FCC Part 24.238
Date: 9.MAY.2003 16:54:11

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

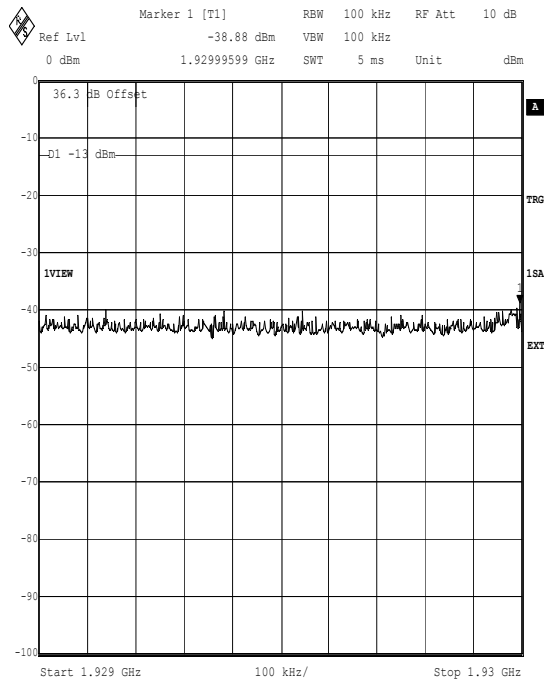
GMSK, TX0 CH 513 and TX1 CH 538 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1929 to 1930 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 75.829 | 6 | 89.375 |
| 2 | 99.633 | 7 | 65.398 |
| 3 | 82.885 | 8 | 75.475 |
| 4 | 92.918 | 9 | 65.552 |
| 5 | 73.212 | 10 | 129.325 |
| Total Peak Power: | | 849.602 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1929 to 1930 | -30.7 | -13.0 | 17.7 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 11.MAY.2003 18:24:31

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

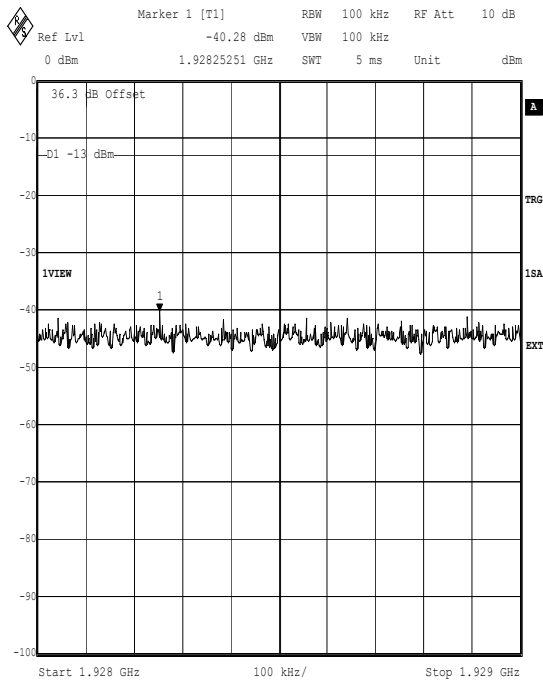
GMSK, TX0 CH 513 and TX1 CH 538 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1928 to 1929 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 69.862 | 6 | 68.022 |
| 2 | 59.468 | 7 | 68.374 |
| 3 | 93.66 | 8 | 59.691 |
| 4 | 65.798 | 9 | 71.217 |
| 5 | 55.46 | 10 | 56.774 |
| Total Peak Power: | | 668.326 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1928 to 1929 | -31.8 | -13.0 | 18.8 | Complied |



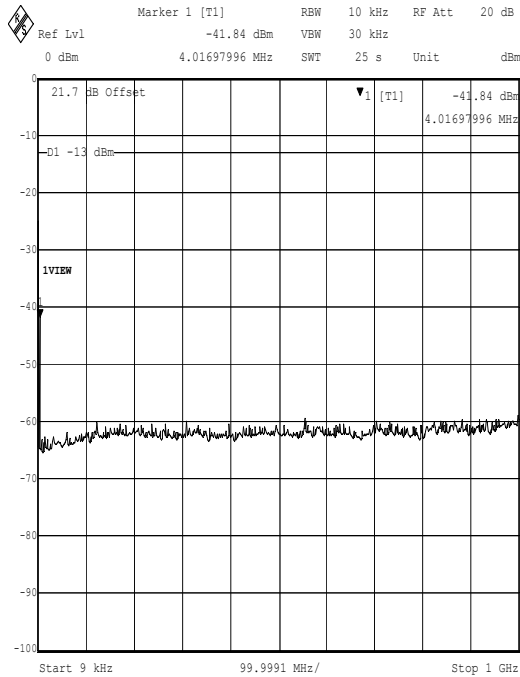
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513 538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 11.MAY.2003 17:54:00

Test Of: Ericsson AB.

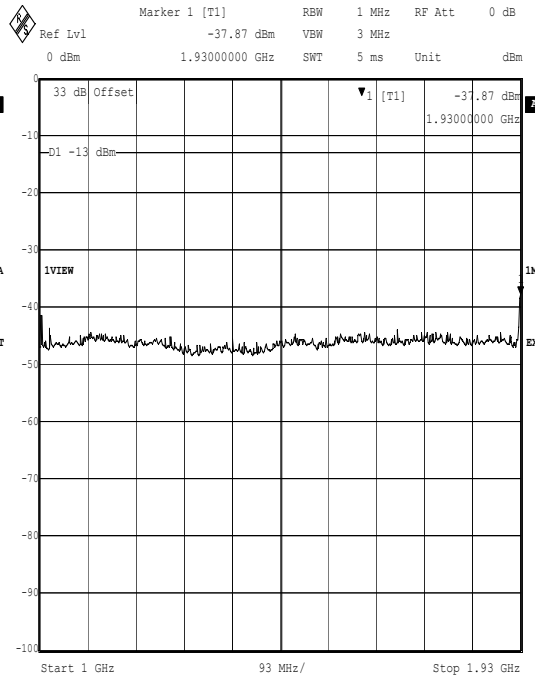
RBS 2308

To: FCC Part 24: 2002

GMSK, TX0 CH 784 and TX1 CH 809



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 15:41:38

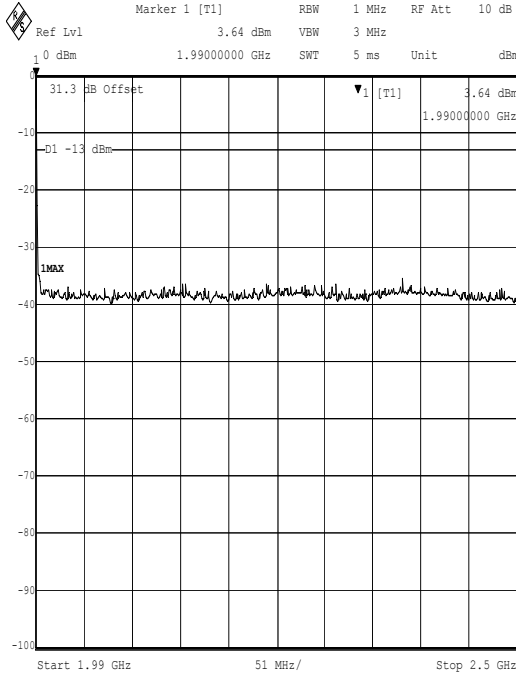


Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 15:44:21

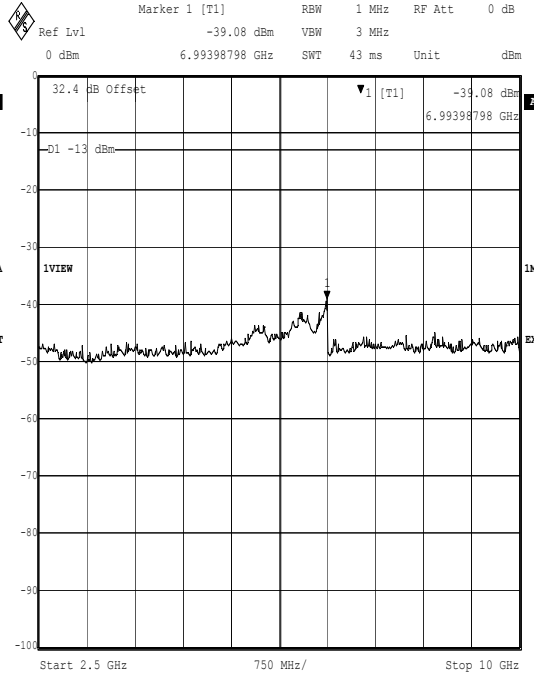
Test Of: Ericsson AB.

RBS 2308

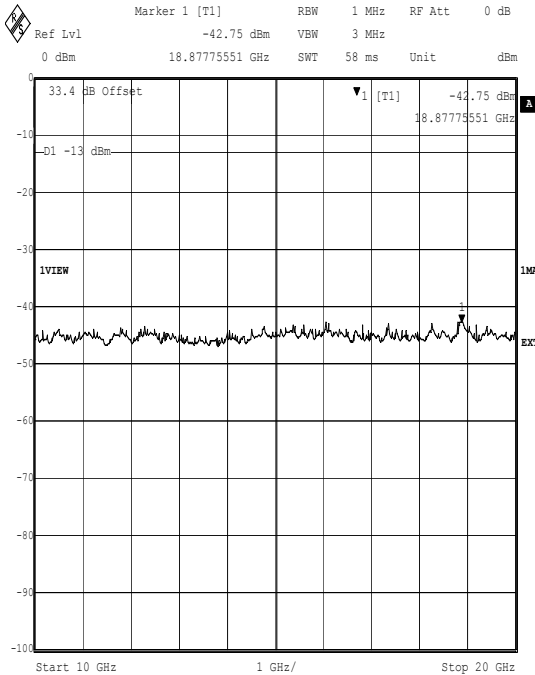
To: FCC Part 24: 2002



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:15:58



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:14:37



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:12:44

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

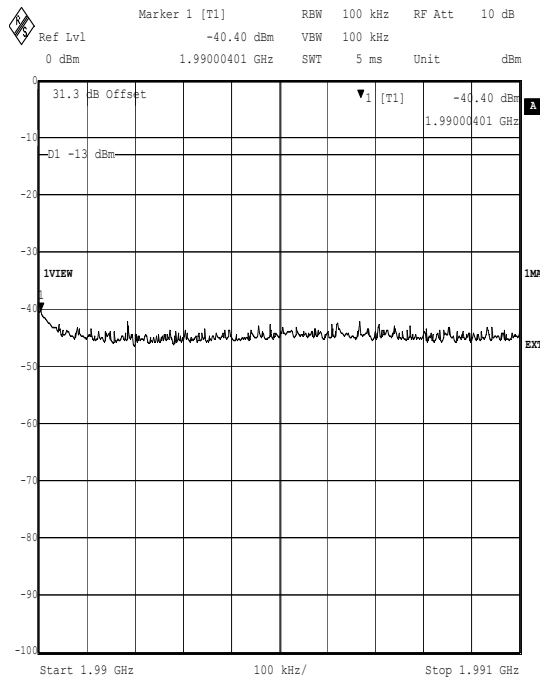
GMSK, TX0 CH 784 and TX1 CH 809 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1990 to 1991 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 91.236 | 6 | 45.729 |
| 2 | 57.308 | 7 | 59.412 |
| 3 | 41.941 | 8 | 50.407 |
| 4 | 42.867 | 9 | 45.430 |
| 5 | 50.810 | 10 | 46.397 |
| Total Peak Power: | | 531.537 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1990 to 1991 | -32.7 | -13.0 | 19.7 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:30:46

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

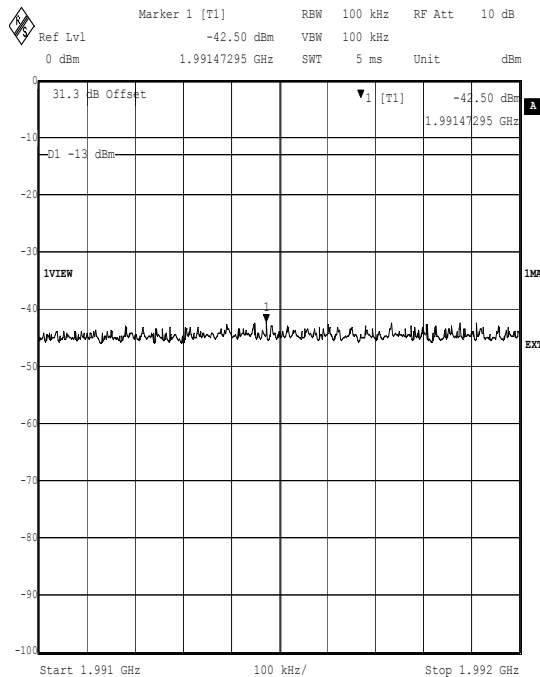
GMSK, TX0 CH 784 and TX1 CH 809 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1991 to 1992 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 38.024 | 6 | 48.599 |
| 2 | 47.608 | 7 | 50.431 |
| 3 | 45.558 | 8 | 55.538 |
| 4 | 44.775 | 9 | 54.892 |
| 5 | 56.297 | 10 | 55.956 |
| Total Peak Power: | | 497.678 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1991 to 1992 | -33.0 | -13.0 | 20.0 | Complied |



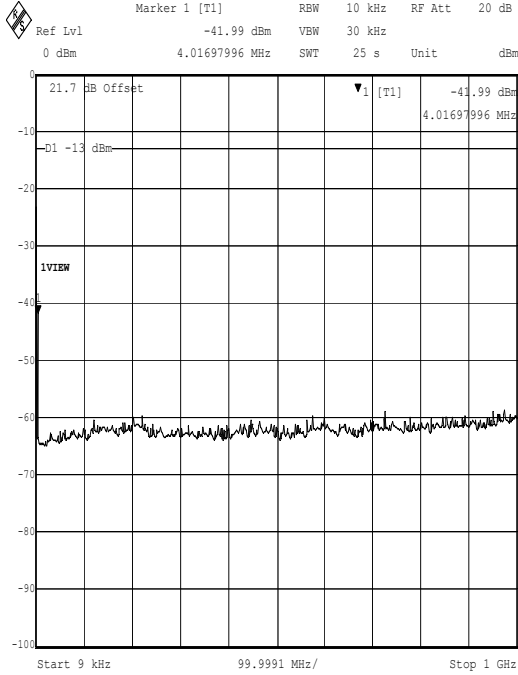
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:33:35

Test Of: Ericsson AB.

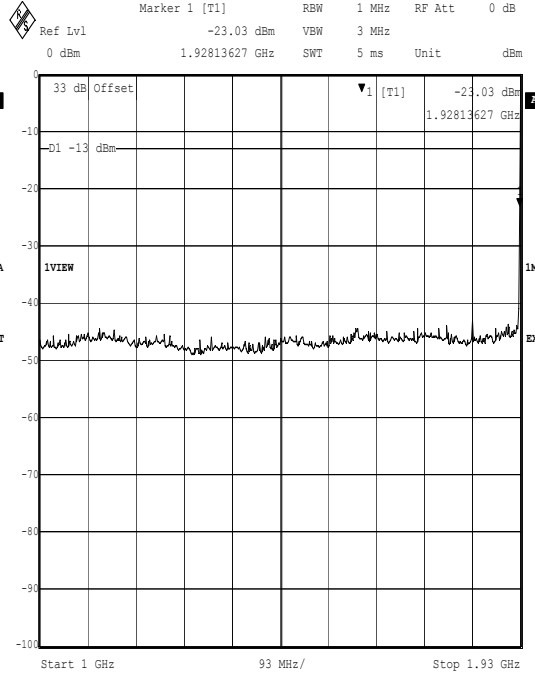
RBS 2308

To: FCC Part 24: 2002

8PSK, TX0 CH 513 and TX1 CH 538



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:08:01



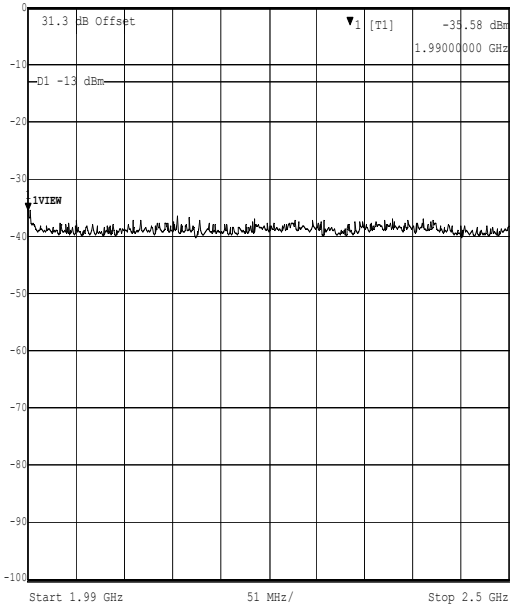
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:15:25

Test Of: Ericsson AB.

RBS 2308

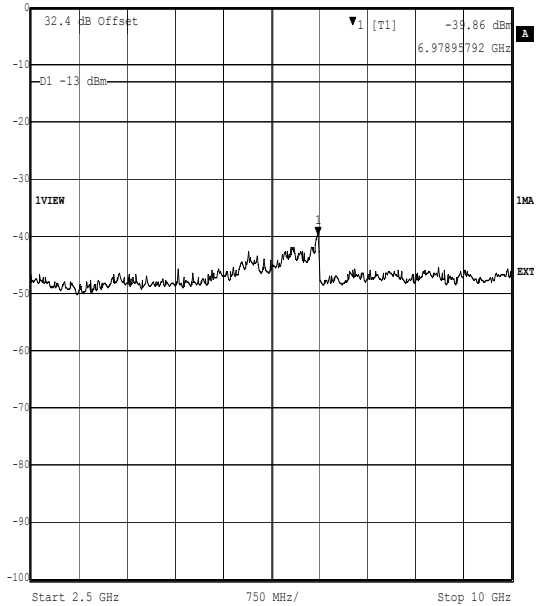
To: FCC Part 24: 2002

Marker 1 [T1] RBW 1 MHz RF Att 10 dB
 Ref Lvl -35.58 dBm VBW 3 MHz
 0 dBm 1.99000000 GHz SWT 5 ms Unit dBm



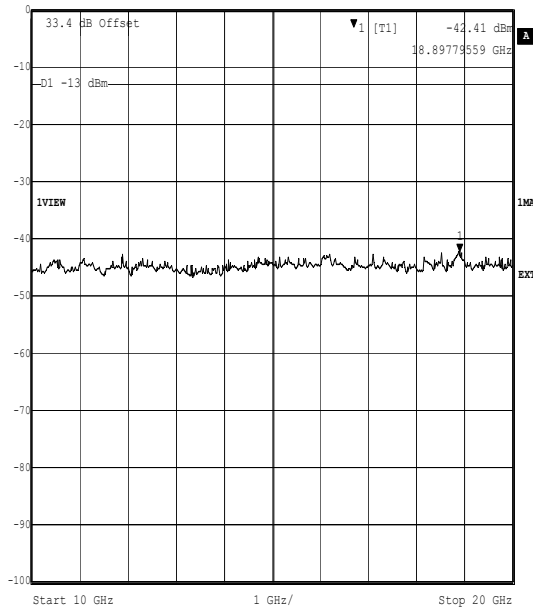
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:17:13

Marker 1 [T1] RBW 1 MHz RF Att 0 dB
 Ref Lvl -39.86 dBm VBW 3 MHz
 0 dBm 6.97895792 GHz SWT 43 ms Unit dBm



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:18:31

Marker 1 [T1] RBW 1 MHz RF Att 0 dB
 Ref Lvl -42.41 dBm VBW 3 MHz
 0 dBm 18.89779559 GHz SWT 58 ms Unit dBm



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:19:52

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

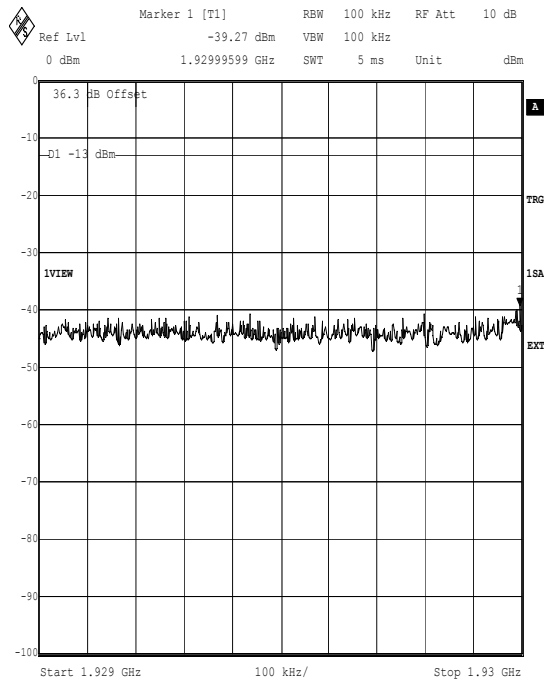
8PSK, TX0 CH 513 and TX1 CH 538 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1929 to 1930 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 72.089 | 6 | 67.073 |
| 2 | 74.946 | 7 | 67.388 |
| 3 | 77.371 | 8 | 78.026 |
| 4 | 71.82 | 9 | 76.614 |
| 5 | 87.348 | 10 | 124.686 |
| Total Peak Power: | | 797.361 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1929 to 1930 | -31 | -13.0 | 18 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 11.MAY.2003 19:35:00

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

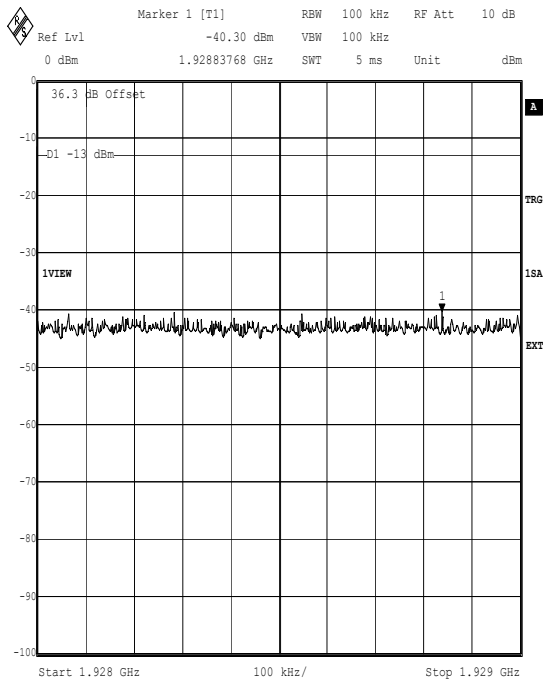
8PSK, TX0 CH 513 and TX1 CH 538 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1928 to 1929 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 83.979 | 6 | 81.043 |
| 2 | 71.685 | 7 | 71.685 |
| 3 | 84.215 | 8 | 70.209 |
| 4 | 68.406 | 9 | 93.266 |
| 5 | 67.451 | 10 | 79.353 |
| Total Peak Power: | | 771.292 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1928 to 1929 | -31.1 | -13.0 | 18.1 | Complied |



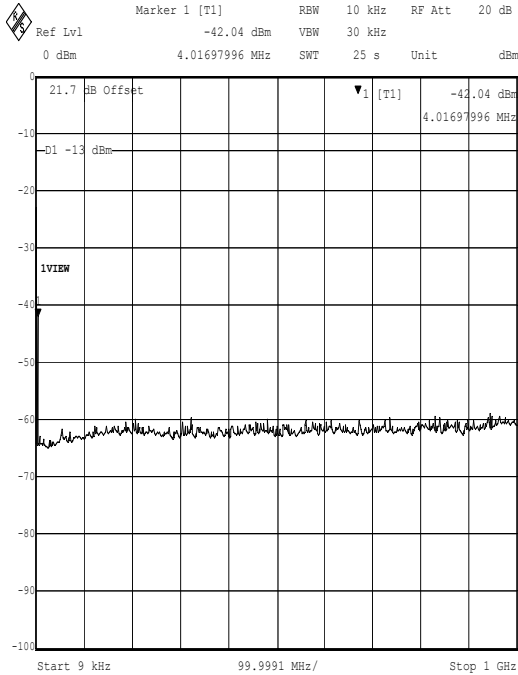
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 11.MAY.2003 18:44:42

Test Of: Ericsson AB.

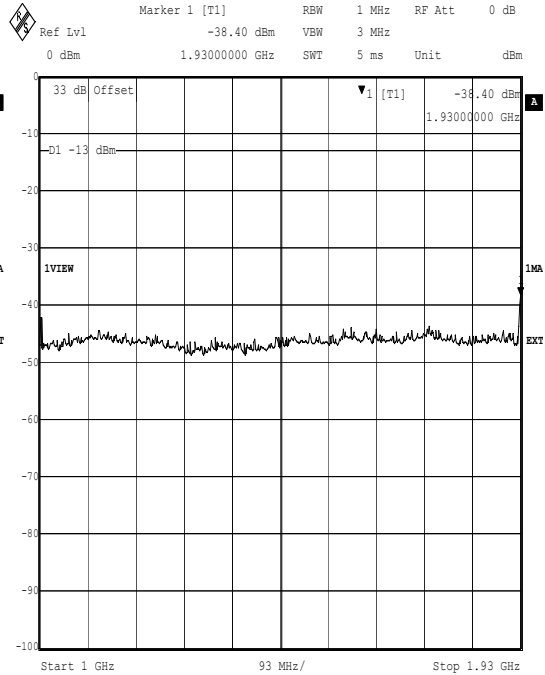
RBS 2308

To: FCC Part 24: 2002

8PSK, TX0 CH 784 and TX1 CH 809



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:29:16

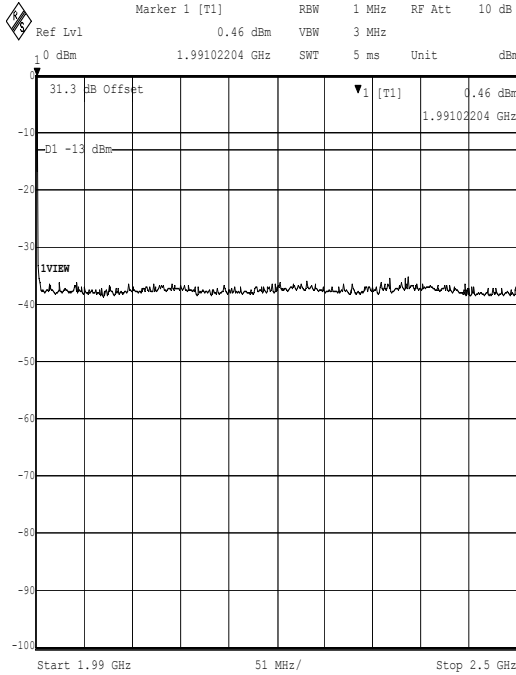


Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:32:11

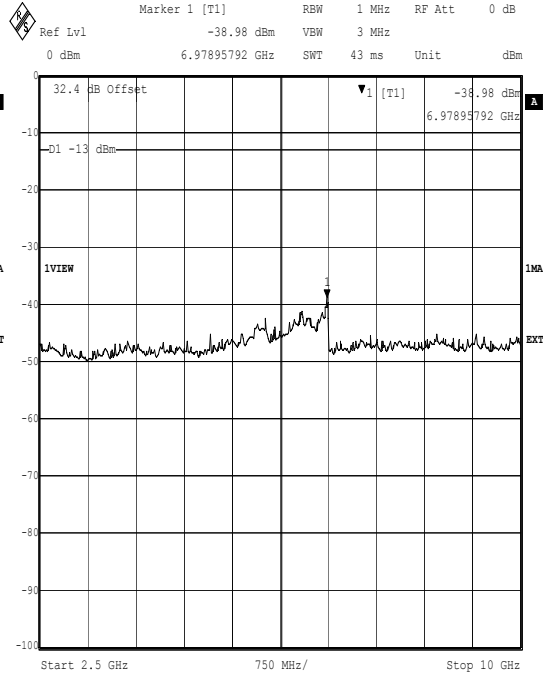
Test Of: Ericsson AB.

RBS 2308

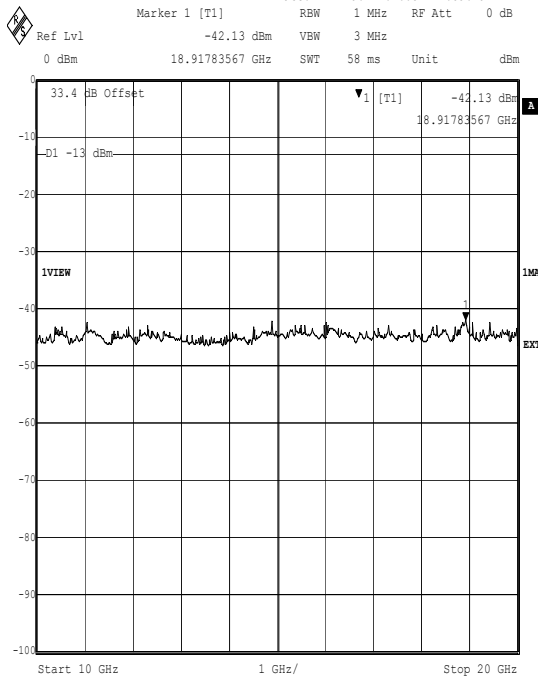
To: FCC Part 24: 2002



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:39:47



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:59:49



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 18:01:11

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

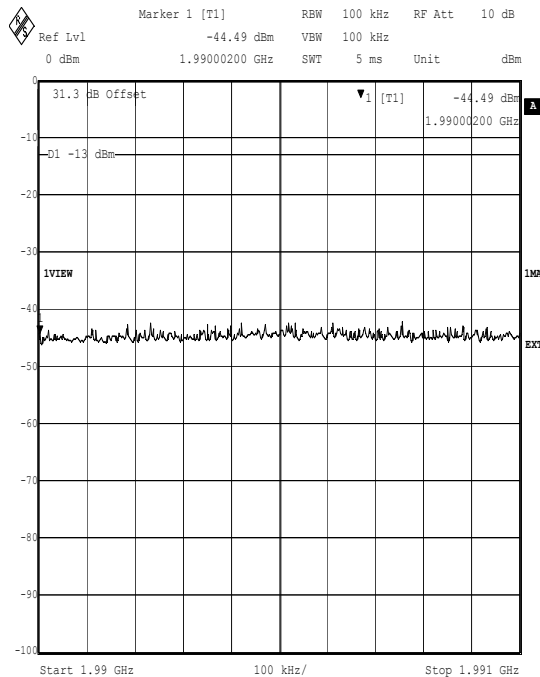
8PSK, TX0 CH 784 and TX1 CH 809 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1990 to 1991 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 136.608 | 6 | 52.111 |
| 2 | 57.362 | 7 | 56.034 |
| 3 | 48.078 | 8 | 60.112 |
| 4 | 45.707 | 9 | 53.146 |
| 5 | 51.577 | 10 | 48.804 |
| Total Peak Power: | | 609.539 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1990 to 1991 | -32.1 | -13.0 | 19.1 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:52:19

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

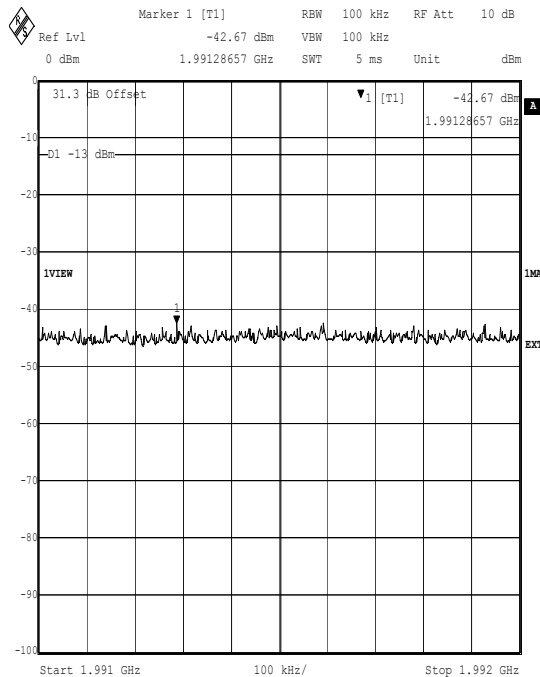
8PSK, TX0 CH 784 and TX1 CH 809 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1991 to 1992 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 45.836 | 6 | 53.546 |
| 2 | 49.588 | 7 | 40.887 |
| 3 | 54.050 | 8 | 49.033 |
| 4 | 48.372 | 9 | 43.575 |
| 5 | 49.264 | 10 | 52.947 |
| Total Peak Power: | | 487.098 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1991 to 1992 | -33.1 | -13.0 | 20.1 | Complied |



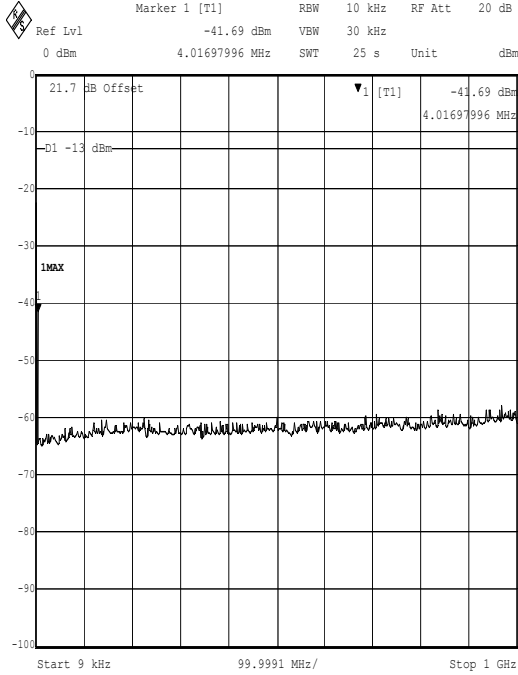
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:53:26

Test Of: Ericsson AB.

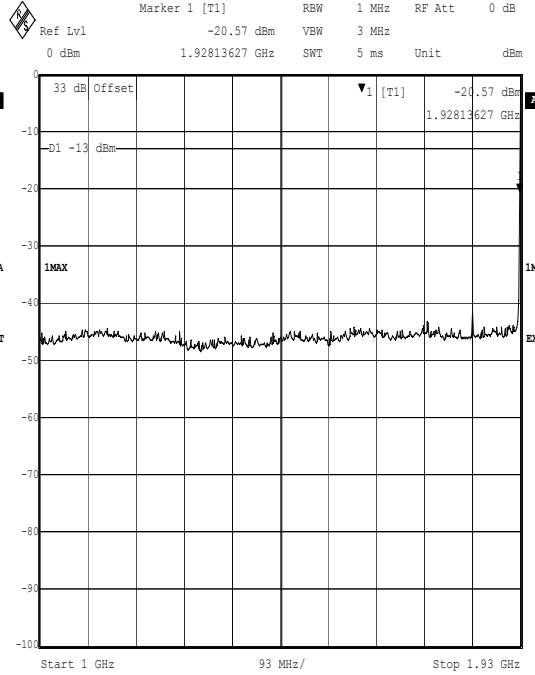
RBS 2308

To: FCC Part 24: 2002

GMSK, TX2 CH 513 and TX3 CH 538



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:13:32

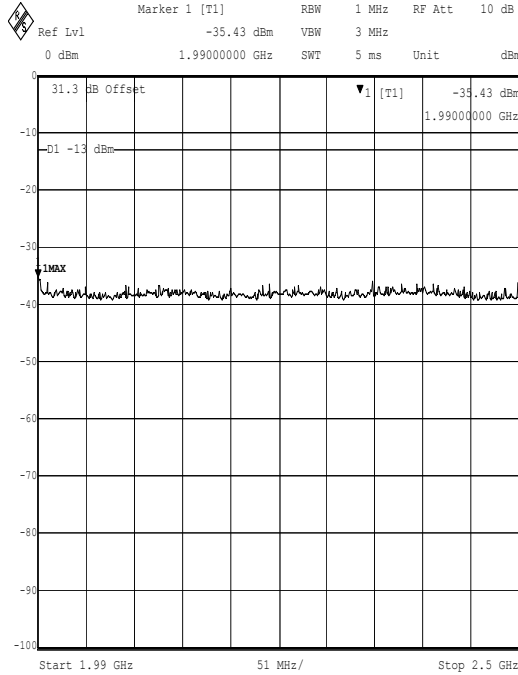


Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:15:08

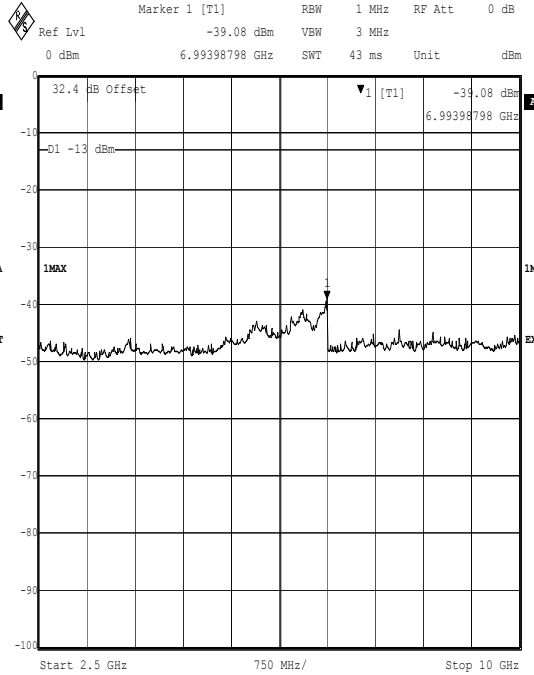
Test Of: Ericsson AB.

RBS 2308

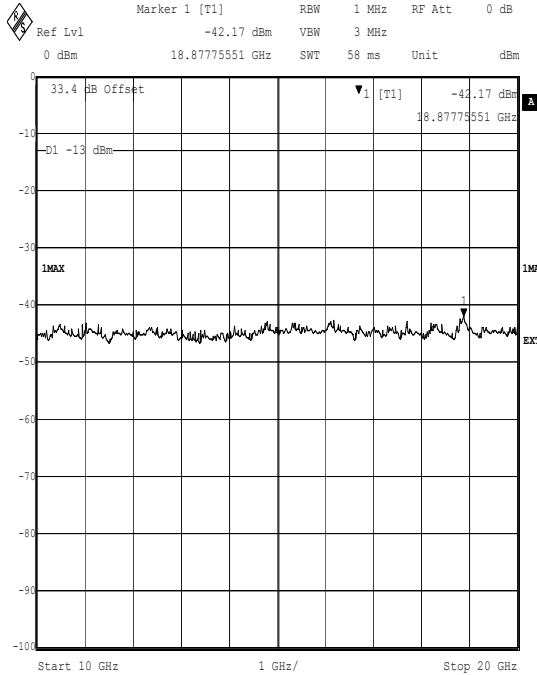
To: FCC Part 24: 2002



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:16:19



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:17:20



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:40:33

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

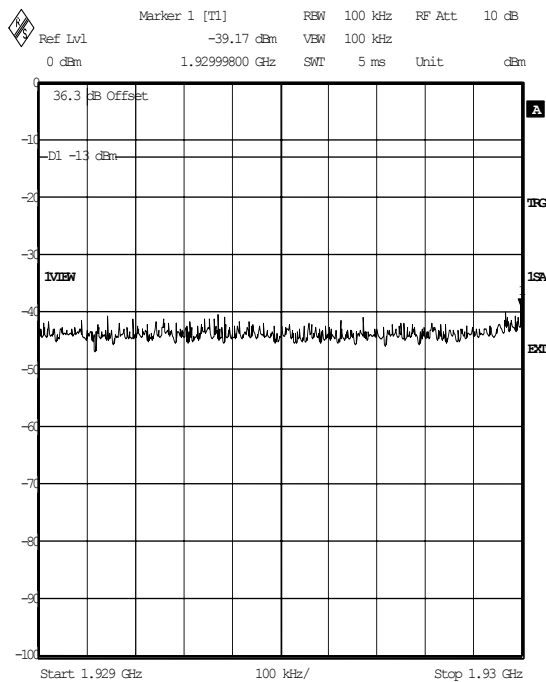
GMSK, TX2 CH 513 and TX3 CH 538 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1929 to 1930 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 67.641 | 6 | 59.719 |
| 2 | 81.151 | 7 | 79.056 |
| 3 | 73.349 | 8 | 61.191 |
| 4 | 84.928 | 9 | 60.734 |
| 5 | 65.705 | 10 | 121.061 |
| Total Peak Power: | | 754.535 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1929 to 1930 | -31.2 | -13.0 | 18.2 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch513_538, Conducted Spurious Emissions, +33.5dBm O/P Power,
 GMSK Mode TX2, TX3, FCC Part 24.238
 Date: 11.MAY.2003 19:04:01

Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

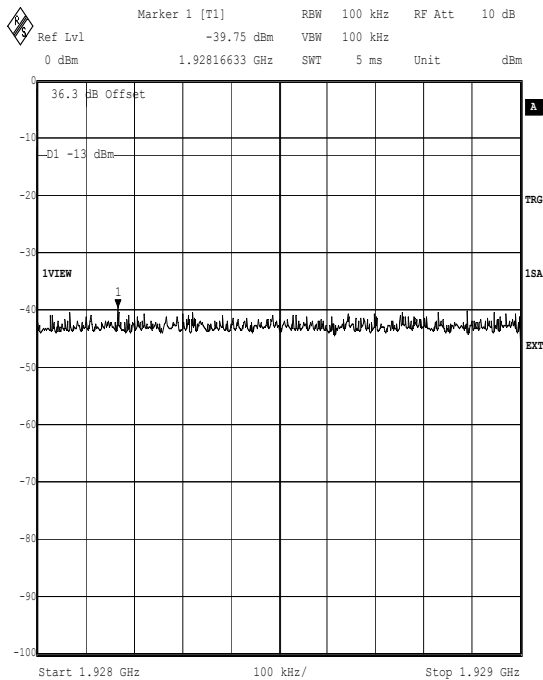
GMSK, TX2 CH 513 and TX3 CH 538 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1928 to 1929 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 84.294 | 6 | 77.847 |
| 2 | 106.835 | 7 | 80.212 |
| 3 | 82.305 | 8 | 85.928 |
| 4 | 86.21 | 9 | 89.585 |
| 5 | 78.246 | 10 | 84.65 |
| Total Peak Power: | | 856.112 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1928 to 1929 | -30.7 | -13.0 | 17.7 | Complied |



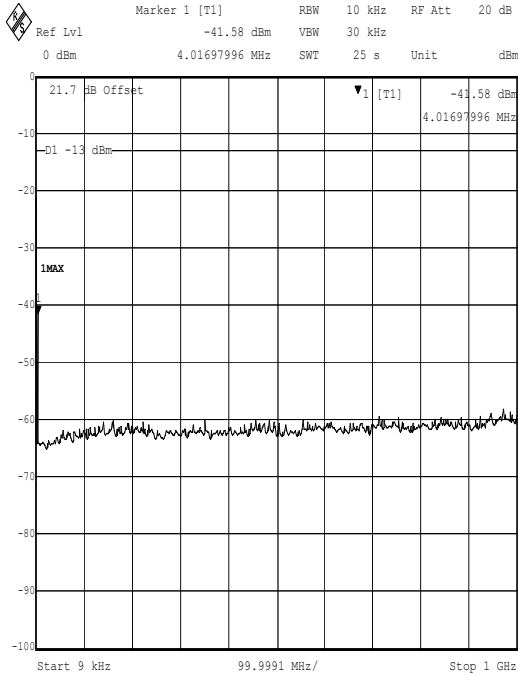
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 19:01:16

Test Of: Ericsson AB.

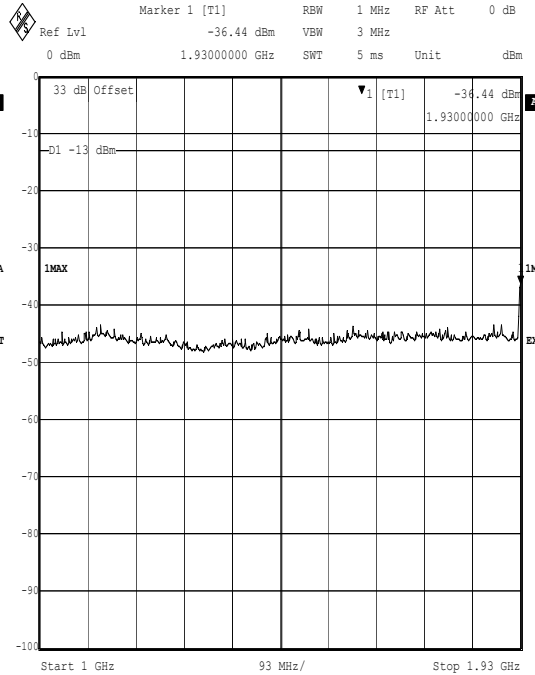
RBS 2308

To: FCC Part 24: 2002

GMSK, TX2 CH 784 and TX3 CH 809



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:24:06

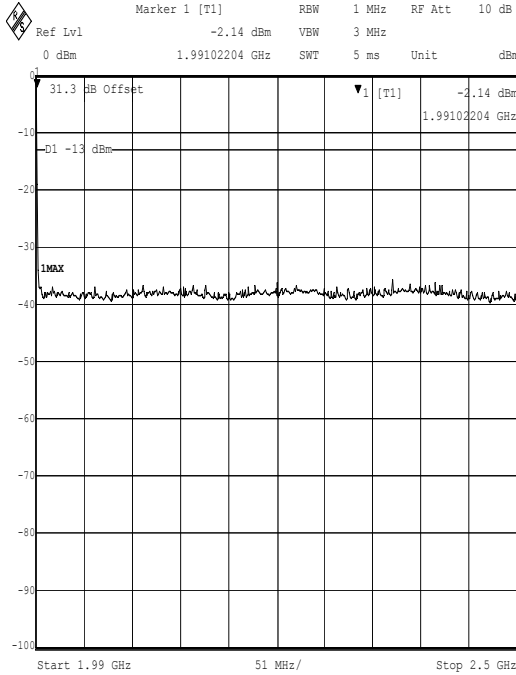


Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:25:52

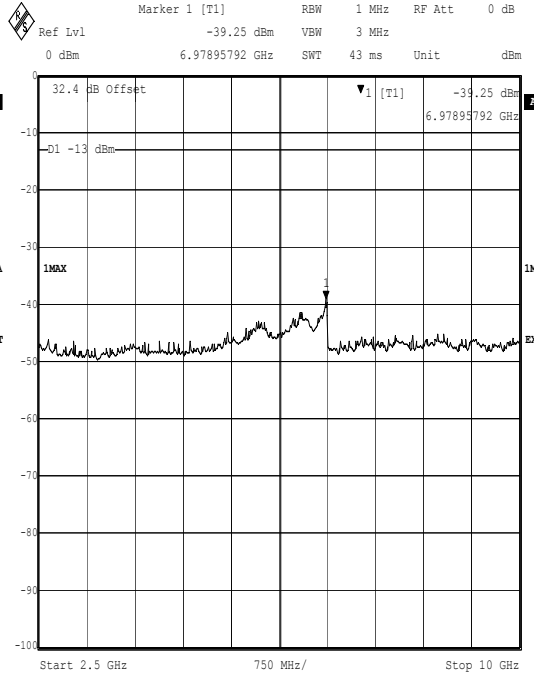
Test Of: Ericsson AB.

RBS 2308

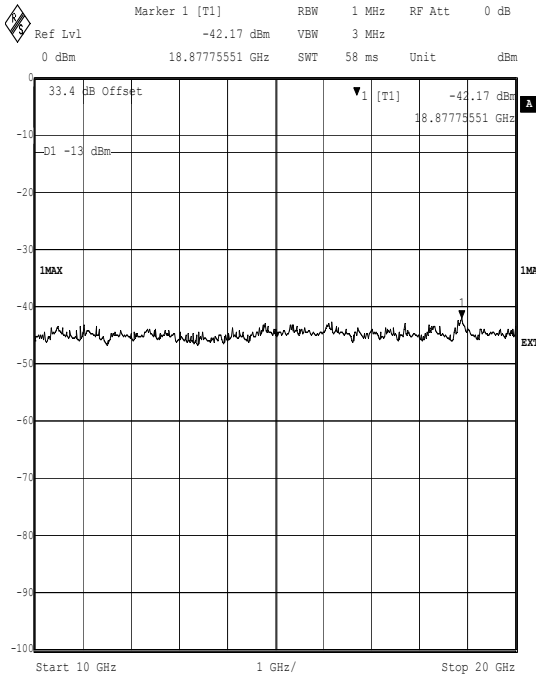
To: FCC Part 24: 2002



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GSMK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:38:46



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GSMK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:39:43



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GSMK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:40:33

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

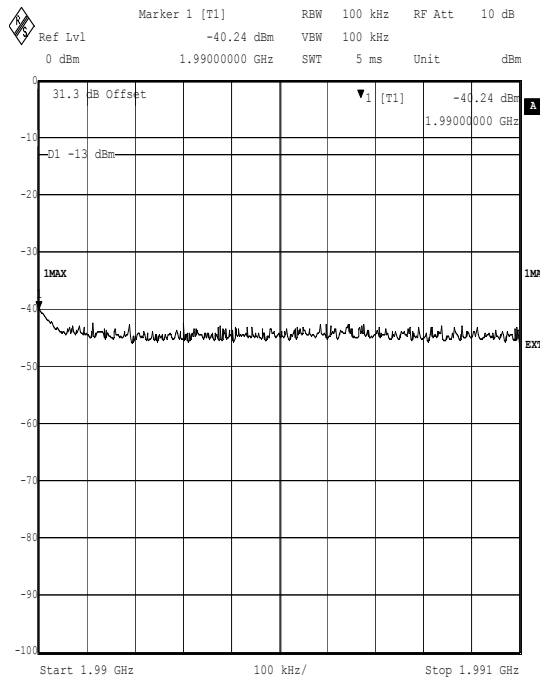
GMSK, TX2 CH 784 and TX3 CH 809 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1990 to 1991 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 96.963 | 6 | 50.525 |
| 2 | 51.144 | 7 | 55.799 |
| 3 | 42.827 | 8 | 72.529 |
| 4 | 40.430 | 9 | 50.219 |
| 5 | 55.564 | 10 | 54.533 |
| Total Peak Power: | | 570.533 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1990 to 1991 | -32.4 | -13.0 | 19.4 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 13:15:28

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

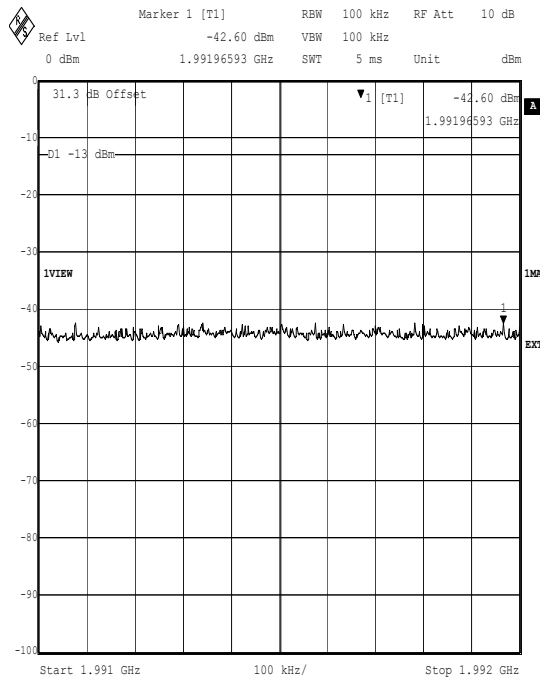
GMSK, TX2 CH 784 and TX3 CH 809 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1991 to 1992 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 54.354 | 6 | 54.482 |
| 2 | 45.473 | 7 | 57.136 |
| 3 | 50.407 | 8 | 53.999 |
| 4 | 53.371 | 9 | 49.797 |
| 5 | 50.383 | 10 | 54.892 |
| Total Peak Power: | | 526.294 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1991 to 1992 | -32.8 | -13.0 | 19.8 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:51:22

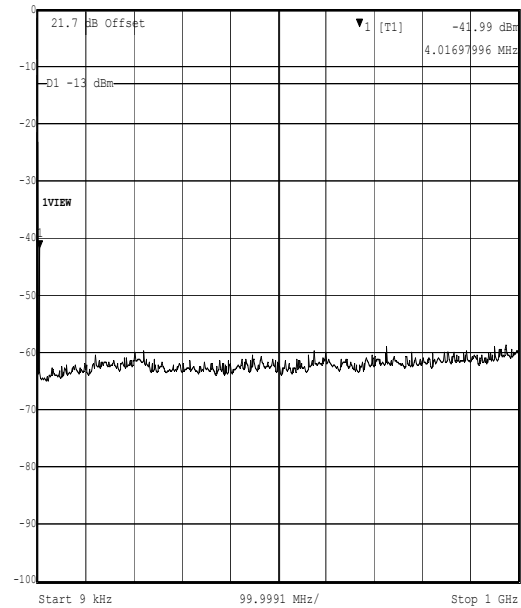
Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

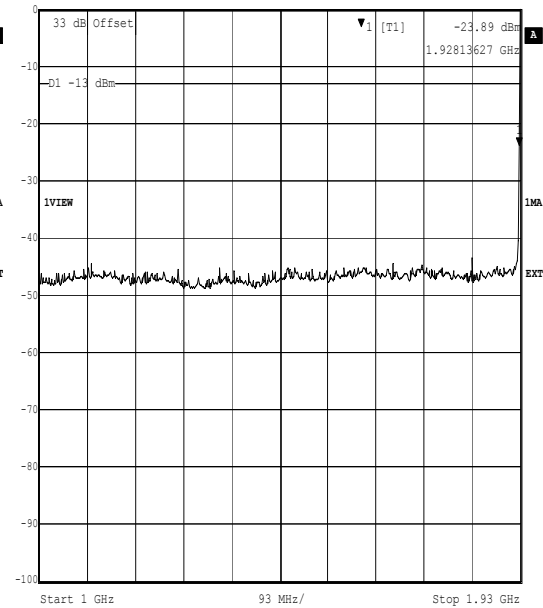
8PSK, TX2 CH 513 and TX3 CH 538

| | | |
|--------------------|----------------|--------------|
| Marker 1 [T1] | RBW 10 kHz | RF Att 20 dB |
| Ref Lvl -41.99 dBm | VBW 30 kHz | |
| 0 dBm | 4.01697996 MHz | SWT 25 s |
| | Unit | dBm |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 17:08:01

| | | |
|--------------------|----------------|-------------|
| Marker 1 [T1] | RBW 1 MHz | RF Att 0 dB |
| Ref Lvl -23.89 dBm | VBW 3 MHz | |
| 0 dBm | 1.92813627 GHz | SWT 5 ms |
| | Unit | dBm |

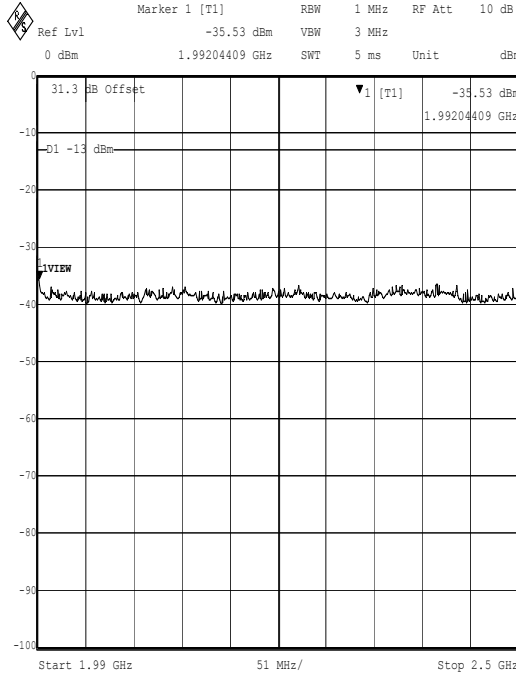


Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:23:30

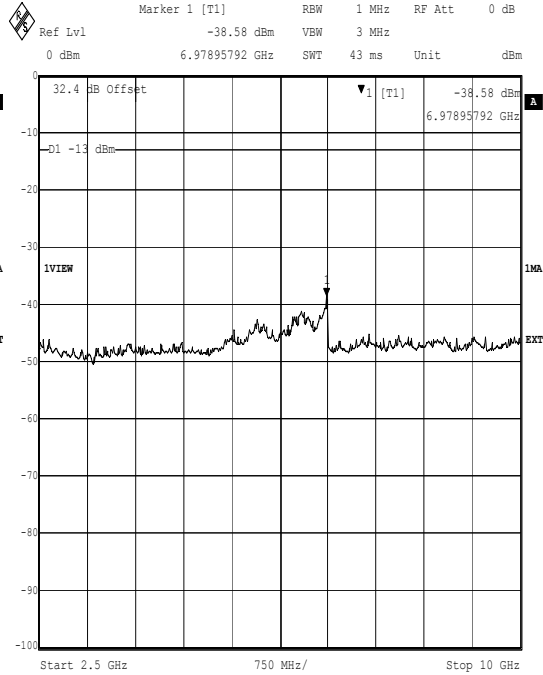
Test Of: Ericsson AB.

RBS 2308

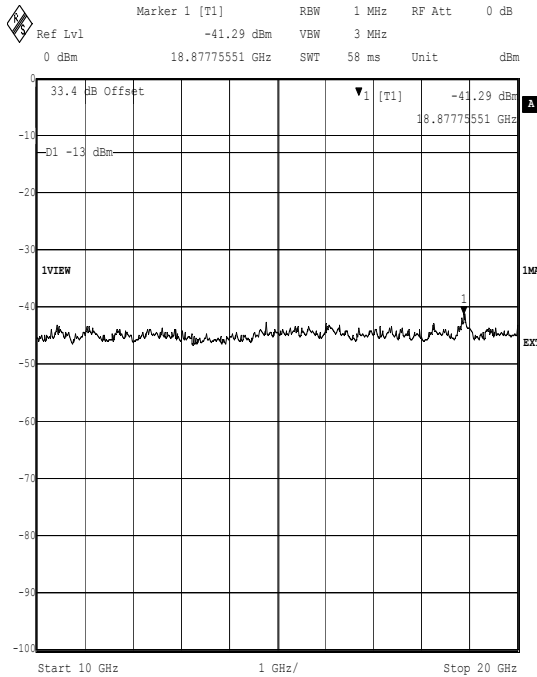
To: FCC Part 24: 2002



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:24:59



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:26:09



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:27:23

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

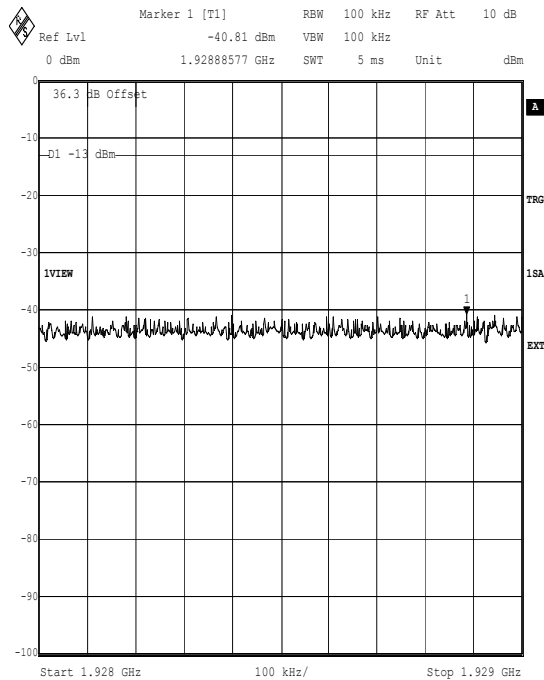
8PSK, TX2 CH 513 and TX3 CH 538 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1929 to 1930 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 87.881 | 6 | 94.897 |
| 2 | 79.688 | 7 | 90.048 |
| 3 | 95.387 | 8 | 91.536 |
| 4 | 112.744 | 9 | 102.246 |
| 5 | 92.484 | 10 | 141.028 |
| Total Peak Power: | | 987.939 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1929 to 1930 | -30.1 | -13.0 | 17.1 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 19:16:21

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

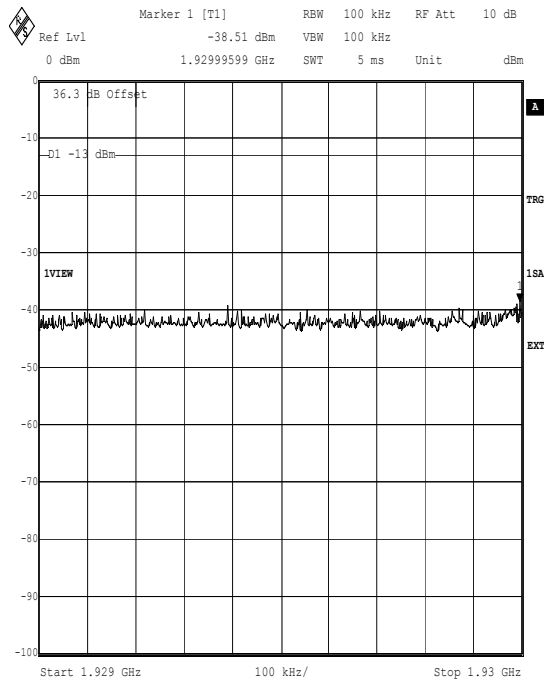
8PSK, TX2 CH 513 and TX3 CH 538 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1928 to 1929 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 61.478 | 6 | 73.831 |
| 2 | 72.471 | 7 | 77.82 |
| 3 | 69.146 | 8 | 71.685 |
| 4 | 68.598 | 9 | 83.079 |
| 5 | 69.049 | 10 | 76.576 |
| Total Peak Power: | | 723.733 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1928 to 1929 | -31.4 | -13.0 | 18.4 | Complied |



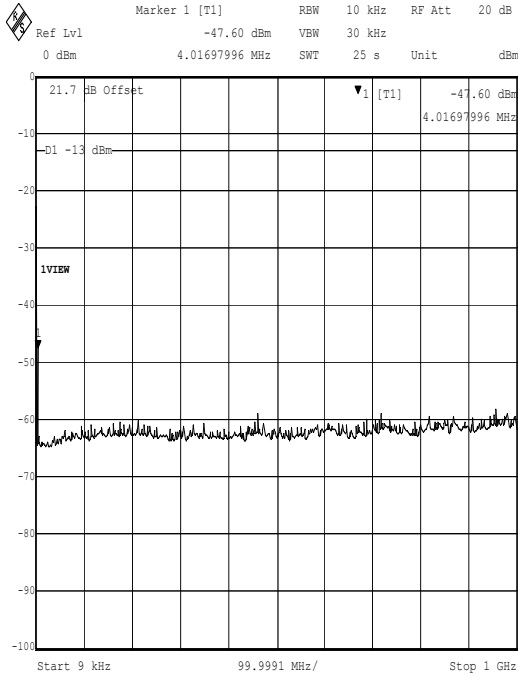
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 19:10:41

Test Of: Ericsson AB.

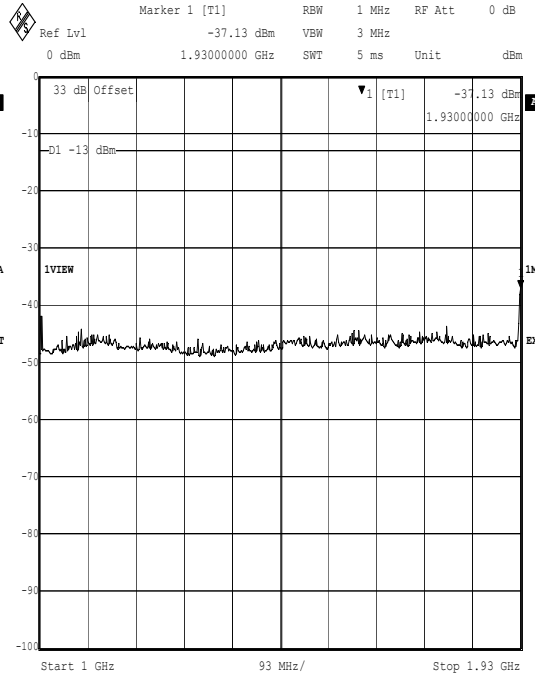
RBS 2308

To: FCC Part 24: 2002

8PSK, TX2 CH 784 and TX3 CH 809



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:48:15

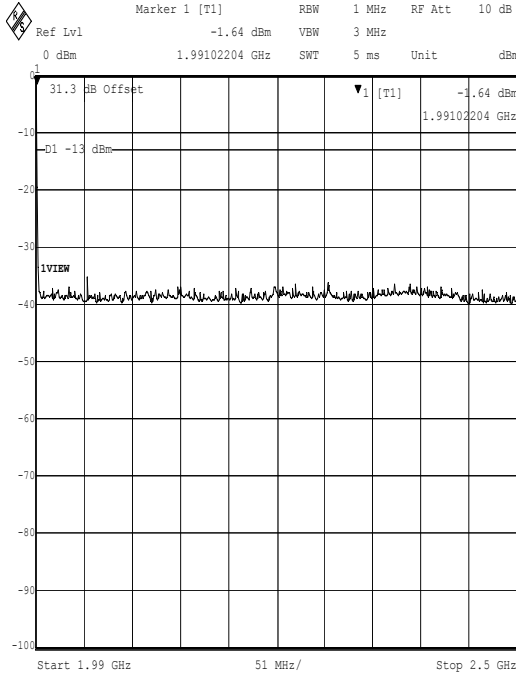


Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:49:43

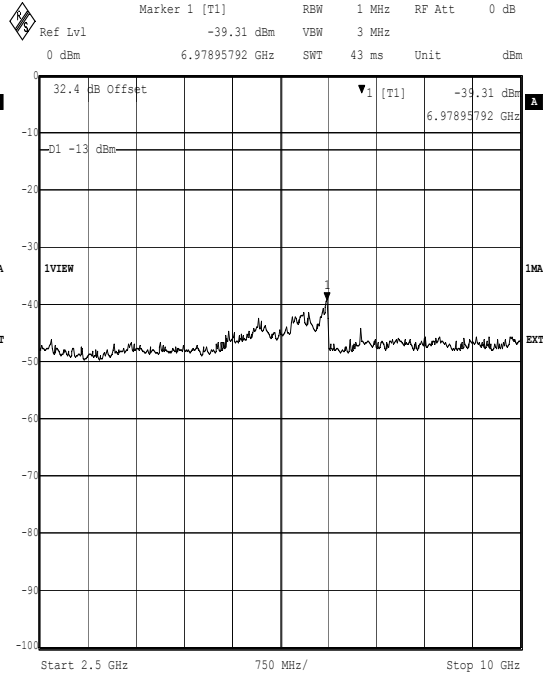
Test Of: Ericsson AB.

RBS 2308

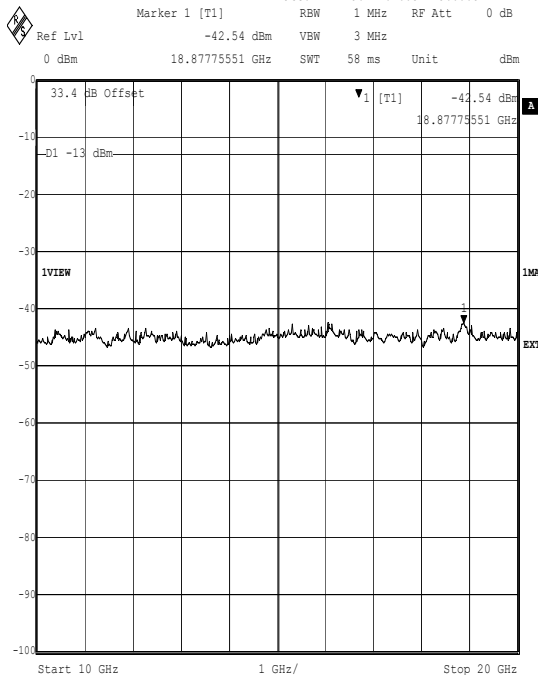
To: FCC Part 24: 2002



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:51:08



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 19:00:54



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: C784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 19:01:58

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

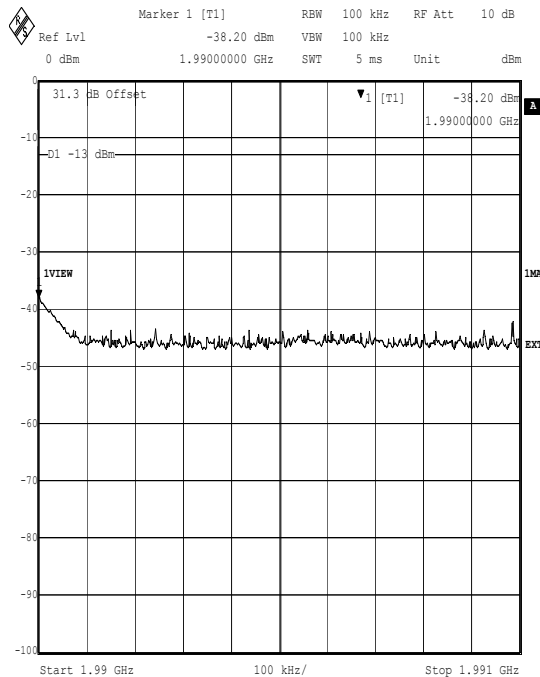
8PSK, TX2 CH 784 and TX3 CH 809 (Continued)

1st 1MHz block immediately outside adjacent frequency block.

First Band: 1990 to 1991 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 151.290 | 6 | 40.506 |
| 2 | 40.829 | 7 | 39.624 |
| 3 | 44.316 | 8 | 33.903 |
| 4 | 37.389 | 9 | 37.740 |
| 5 | 40.090 | 10 | 35.862 |
| Total Peak Power: | | 501.549 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1990 to 1991 | -33.0 | -13.0 | 20.0 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:53:55

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002

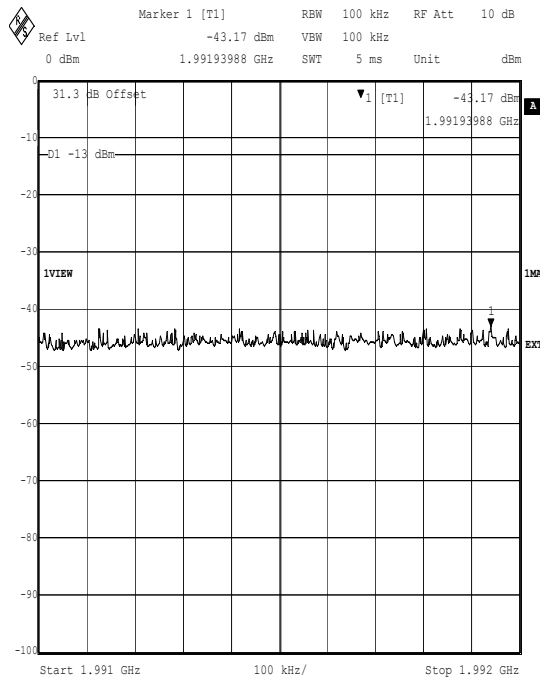
8PSK, TX2 CH 784 and TX3 CH 809 (Continued)

2nd 1MHz block immediately outside adjacent frequency block.

Second Band: 1991 to 1992 MHz

| 100 kHz Strip Number | Peak Power (nW/100kHz) | 100 kHz Strip Number | Peak Power (nW/100kHz) |
|----------------------|------------------------|----------------------|------------------------|
| 1 | 35.561 | 6 | 41.836 |
| 2 | 43.068 | 7 | 39.791 |
| 3 | 42.567 | 8 | 39.144 |
| 4 | 35.795 | 9 | 44.420 |
| 5 | 42.507 | 10 | 41.485 |
| Total Peak Power: | | 406.174 nW/MHz | |

| Band (MHz) | Peak Power (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Status |
|--------------|----------------------|-----------------|-------------|----------|
| 1991 to 1992 | -33.9 | -13.0 | 20.9 | Complied |



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Conducted Spurious Emissions. +33.5dBm O/P Power.
 8PSK Mode TX2_TX3. FCC Part 24.238
 Date: 9.MAY.2003 18:57:21

Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

**7.8. Transmitter Conducted Measurements: (Intermodulation Responses):
Section 2.1051/24.238 (a)**

7.8.1. The EUT and spectrum analyser were configured as for conducted antenna port measurements.

7.8.2. Tests were performed to identify out of band emissions in accordance with FCC Part 2.1051 and 24.238 (a) with reference to TIA_EIA_603B.

7.8.3. Tests were also performed to identify the level of any Intermodulation responses present.

7.8.4. Measurements were made at the ARP output connectors

7.8.5. The output was connected to a spectrum analyser via cables, attenuation and an RF box containing various filters.

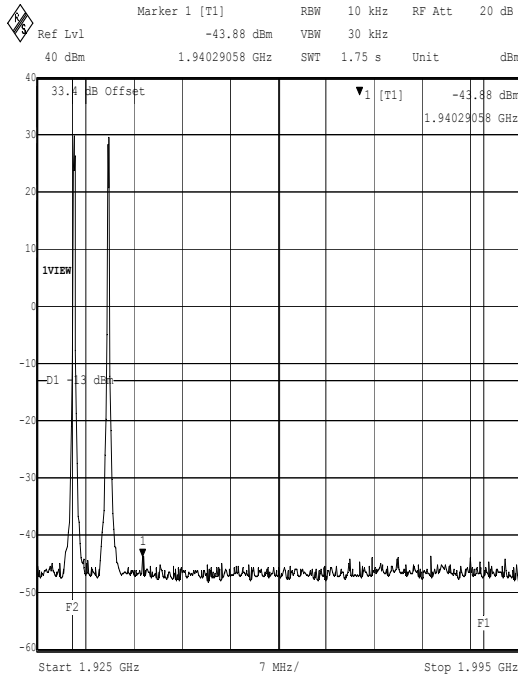
7.8.6. The path loss was entered into the spectrum analyser as a reference level offset.

7.8.7. FCC Part 24.238 (a) states that emissions shall be attenuated by at least $43 + 10 \log(P)$ dB below the transmitter power, where (P) is the power measured at the EUT antenna terminals.

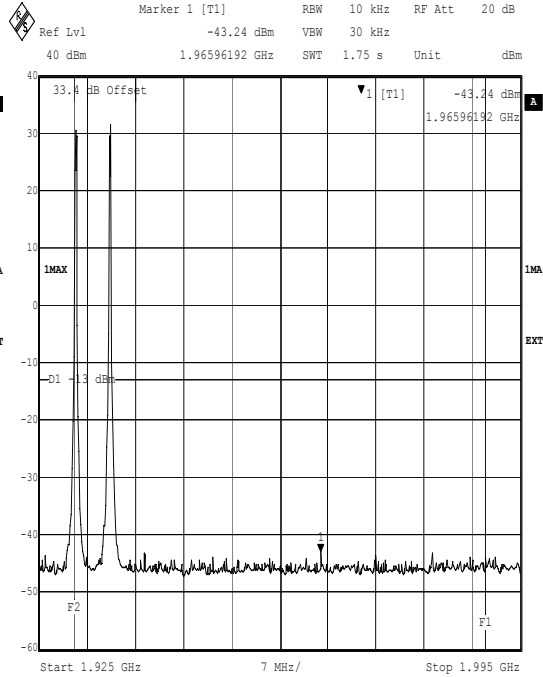
Test Of: Ericsson AB.

RBS 2308

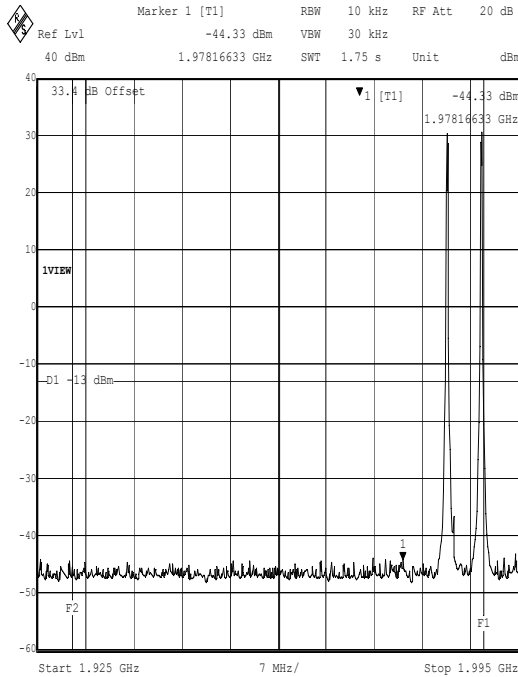
To: FCC Part 24: 2002



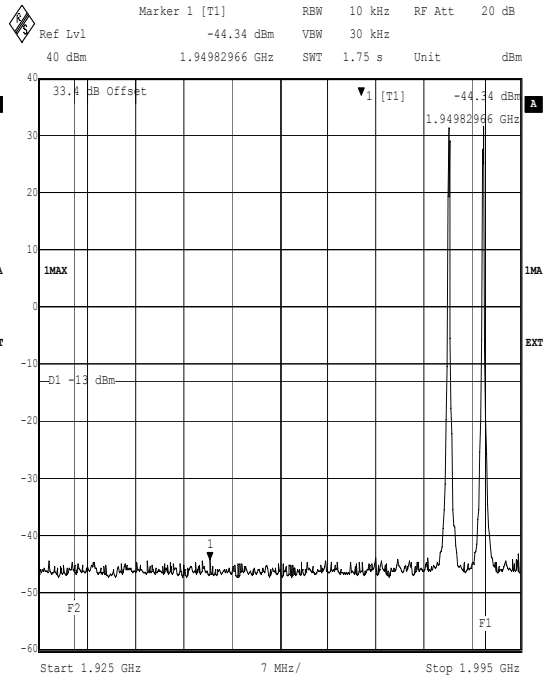
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Inband Intermodulation Test. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 16:55:50



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch513_538. Inband Intermodulation Test. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:09:57



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Inband Intermodulation Test. +33.5dBm O/P Power.
 GMSK Mode TX0_TX1. FCC Part 24.238
 Date: 9.MAY.2003 15:59:19



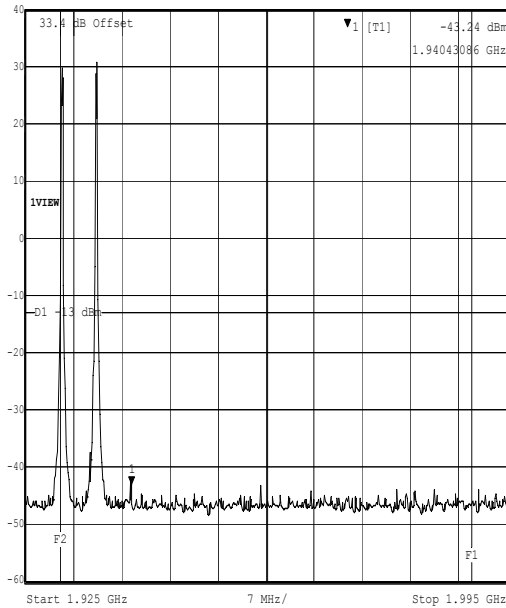
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
 Comment A: Ch784_809. Inband Intermodulation Test. +33.5dBm O/P Power.
 GMSK Mode TX2_TX3. FCC Part 24.238
 Date: 11.MAY.2003 12:42:06

Test Of: Ericsson AB.

RBS 2308

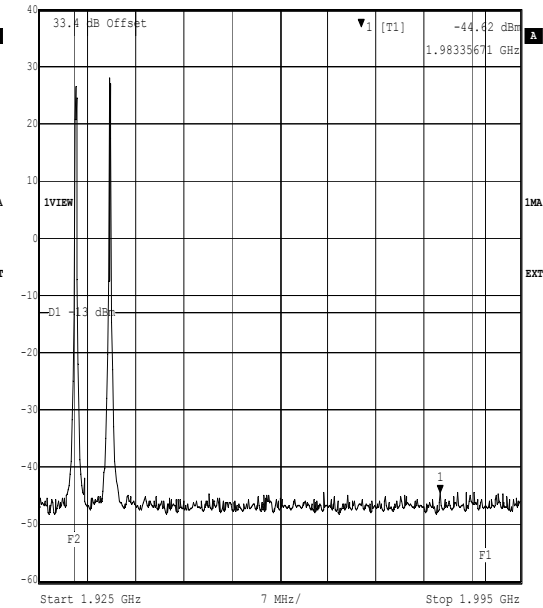
To: FCC Part 24: 2002

Marker 1 [T1] RBW 10 kHz RF Att 20 dB
Ref Lvl -43.24 dBm VBW 30 kHz
40 dBm 1.94043086 GHz SWT 1.75 s Unit dBm



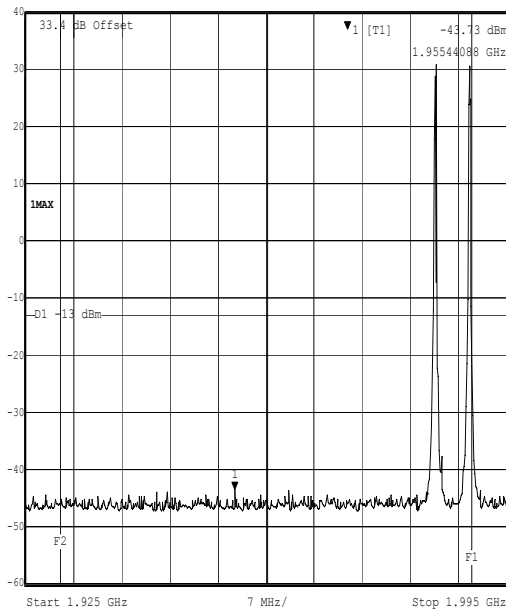
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch513_538. Inband Intermodulation Test. +33.5dBm O/P Power.
8PSK Mode TX0_TX1. FCC Part 24.238
Date: 9.MAY.2003 17:21:02

Marker 1 [T1] RBW 10 kHz RF Att 20 dB
Ref Lvl -44.62 dBm VBW 30 kHz
40 dBm 1.98335671 GHz SWT 1.75 s Unit dBm



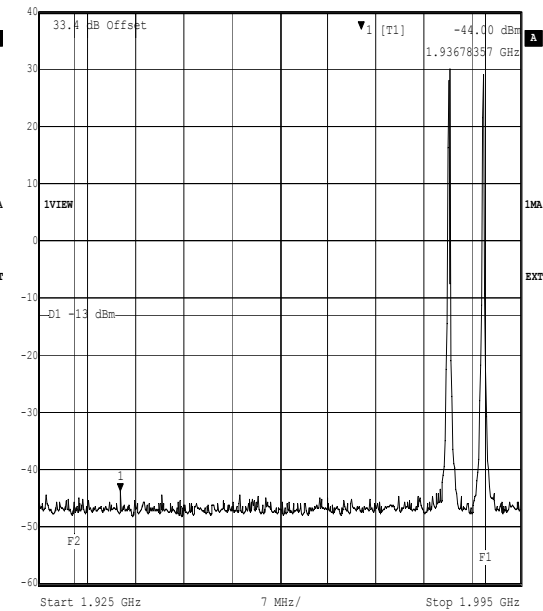
Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch513_538. Inband Intermodulation Test. +33.5dBm O/P Power.
8PSK Mode TX2_TX3. FCC Part 24.238
Date: 9.MAY.2003 18:30:32

Marker 1 [T1] RBW 10 kHz RF Att 20 dB
Ref Lvl -43.73 dBm VBW 30 kHz
40 dBm 1.95544088 GHz SWT 1.75 s Unit dBm



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch784_809. Inband Intermodulation Test. +33.5dBm O/P Power.
8PSK Mode TX0_TX1. FCC Part 24.238
Date: 11.MAY.2003 13:00:48

Marker 1 [T1] RBW 10 kHz RF Att 20 dB
Ref Lvl -44.00 dBm VBW 30 kHz
40 dBm 1.93678357 GHz SWT 1.75 s Unit dBm



Title: Testing for Ericsson AB. RBS 2308 1900 MHz. 44801JD01
Comment A: Ch784_809. Inband Intermodulation Test. +33.5dBm O/P Power.
8PSK Mode TX2_TX3. FCC Part 24.238
Date: 9.MAY.2003 19:05:02

Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

7.9. Transmitter Conducted Emissions at Band Edges: Section 2.1051/24.238

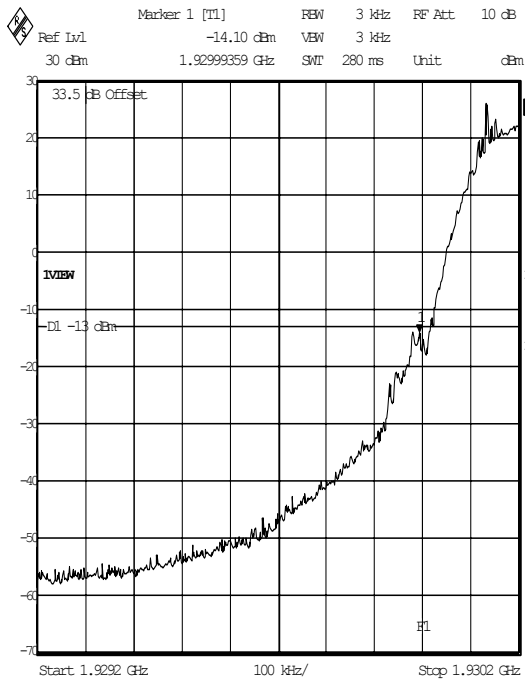
7.9.1. Tests were performed to identify the maximum conducted band edge emissions.

Lower Band Edge

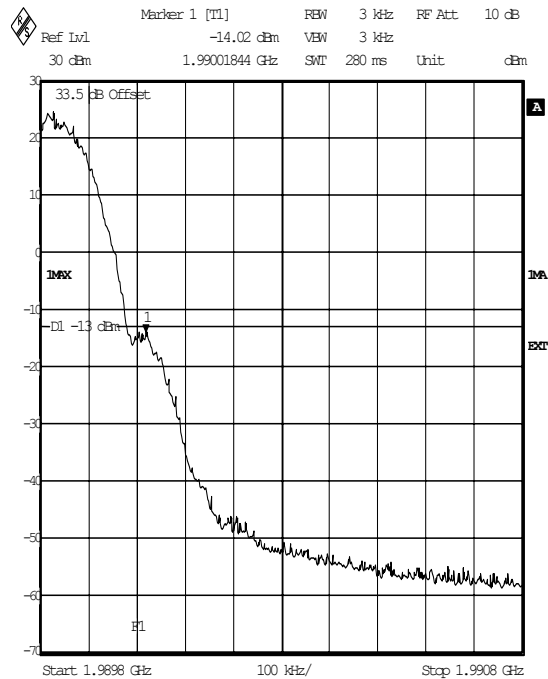
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99359 | -14.10 | -13.0 | 1.1 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.01844 | -14.02 | -13.0 | 1.02 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch512, CBW Band Edge +33.5dBm Output Power, GSM Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 18:41:56



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch810, CBW Band Edge +31.5dBm Output Power, GSM Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 19:10:41

Test Of: Ericsson AB.

RBS 2308

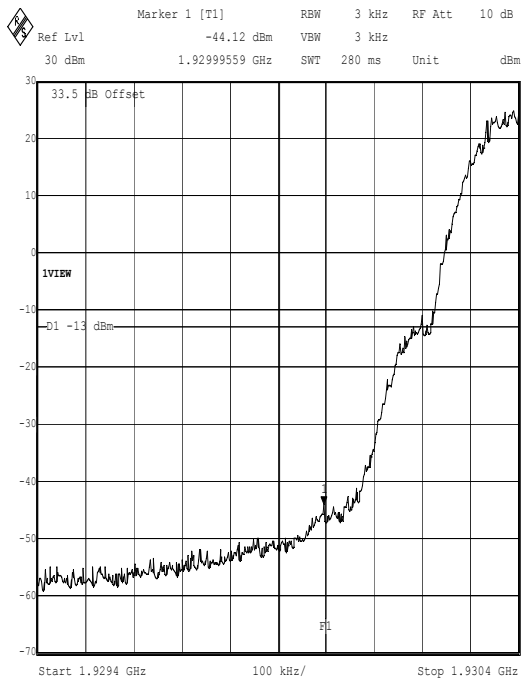
To: FCC Part 24: 2002

Lower Band Edge

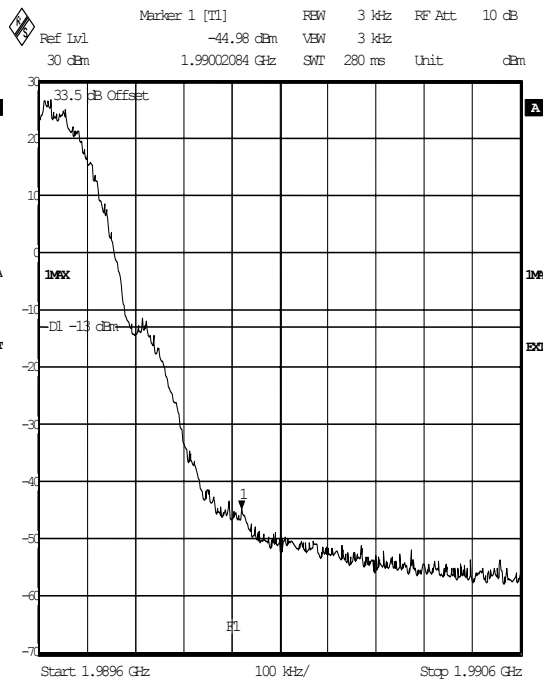
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99559 | -44.12 | -13.0 | 31.12 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.02084 | -44.98 | -13.0 | 31.98 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch513, OBW Band Edge +33.5dBm Output Power, GMSK Mode TX0, F
 CC Part 24.238
 Date: 13.MAY.2003 17:04:40



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch809, OBW Band Edge +33.5dBm Output Power, GMSK Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 19:20:14

Test Of: Ericsson AB.

RBS 2308

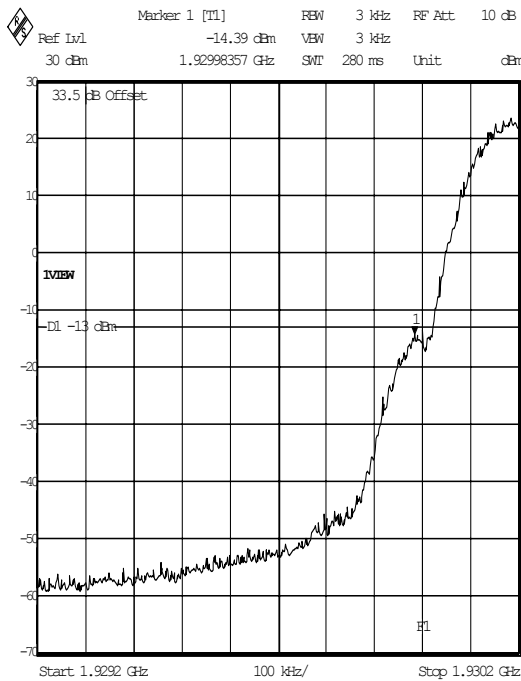
To: FCC Part 24: 2002

Lower Band Edge

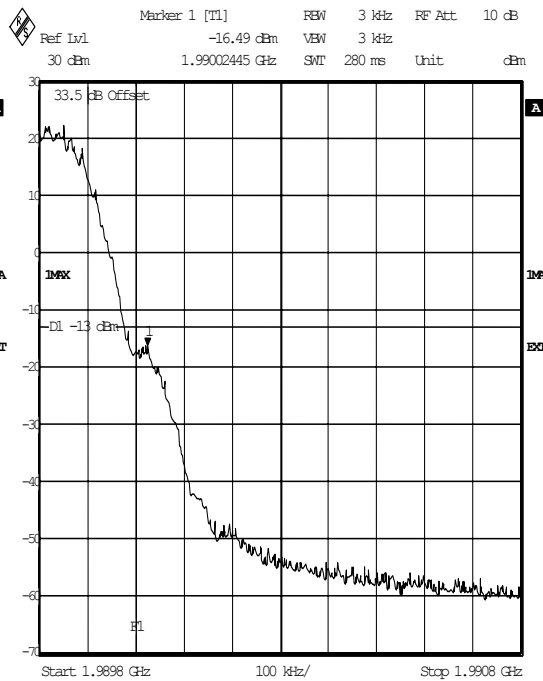
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.98357 | -14.39 | -13.0 | 1.39 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.02445 | -16.49 | -13.0 | 3.49 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch512, CBW Band Edge +31.5dBm Output Power, GSM Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 19:32:38



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch610, CBW Band Edge +29.5dBm Output Power, GSM Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 19:46:59

Test Of: Ericsson AB.

RBS 2308

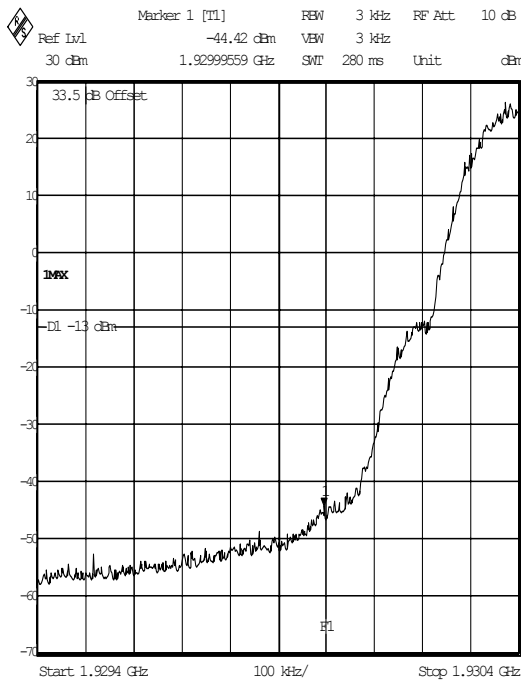
To: FCC Part 24: 2002

Lower Band Edge

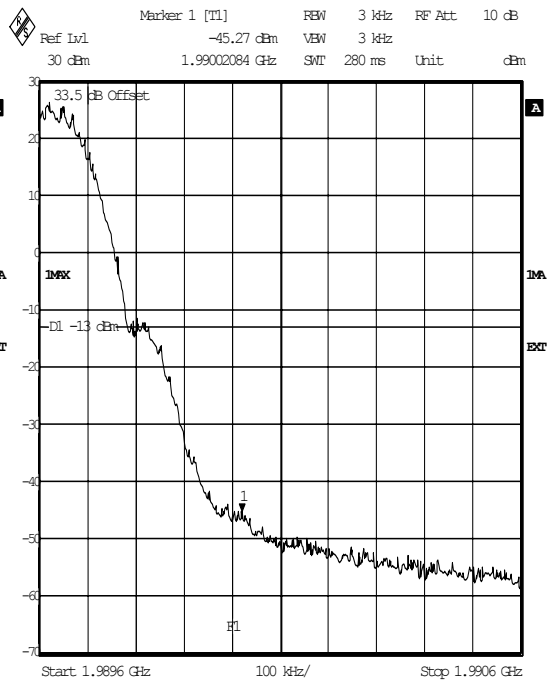
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99559 | -44.42 | -13.0 | 31.42 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.02084 | -45.27 | -13.0 | 32.27 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch513, CW Band Edge +33.5dBm Output Power, GSM Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 19:39:04



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch809, CW Band Edge +33.5dBm Output Power, GSM Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 20:00:09

Test Of: Ericsson AB.

RBS 2308

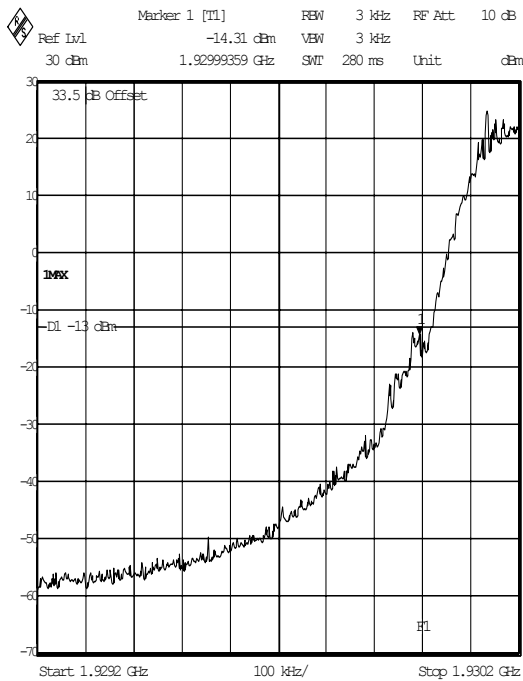
To: FCC Part 24: 2002

Lower Band Edge

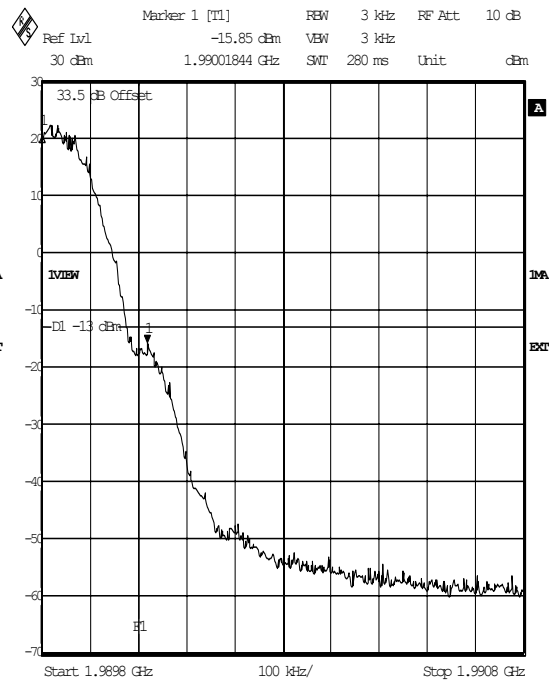
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99859 | -14.31 | -13.0 | 1.31 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.01844 | -15.85 | -13.0 | 2.85 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch512, OBW Band Edge +33.5dBm Output Power, 8PSK Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 19:01:22



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch610, OBW Band Edge +29.5dBm Output Power, 8PSK Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 17:43:13

Test Of: Ericsson AB.

RBS 2308

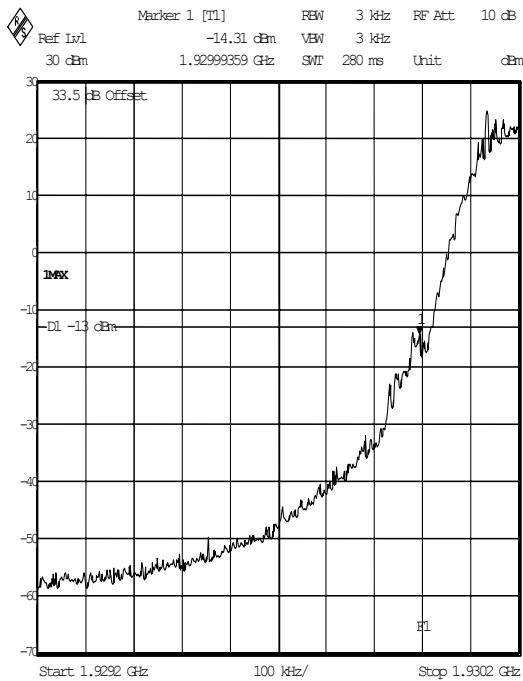
To: FCC Part 24: 2002

Lower Band Edge

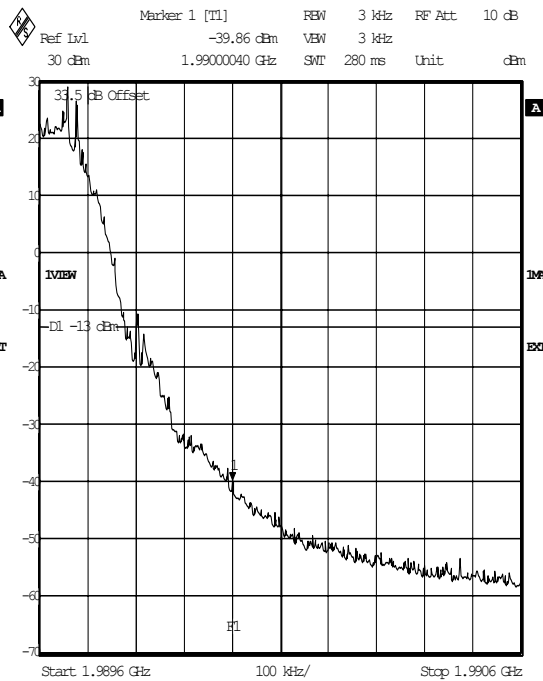
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99859 | -14.31 | -13.0 | 1.31 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.00040 | -39.86 | -13.0 | 26.86 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch512, CW Band Edge +33.5dBm Output Power, 8PSK Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 19:01:22



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch809, CW Band Edge +33.5dBm Output Power, 8PSK Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 18:27:40

Test Of: Ericsson AB.

RBS 2308

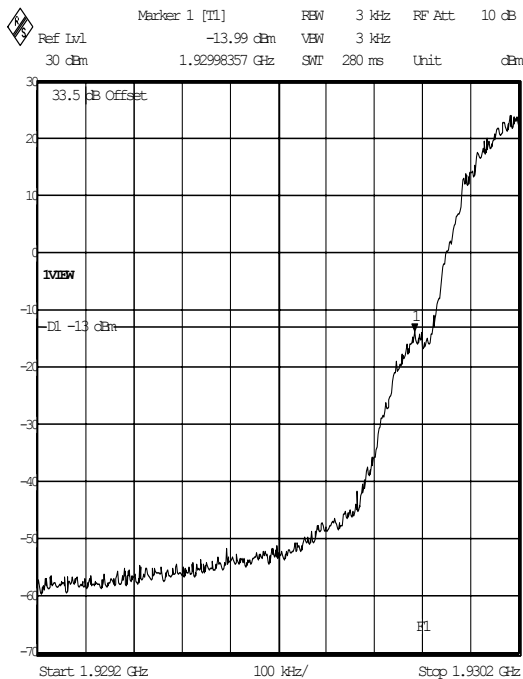
To: FCC Part 24: 2002

Lower Band Edge

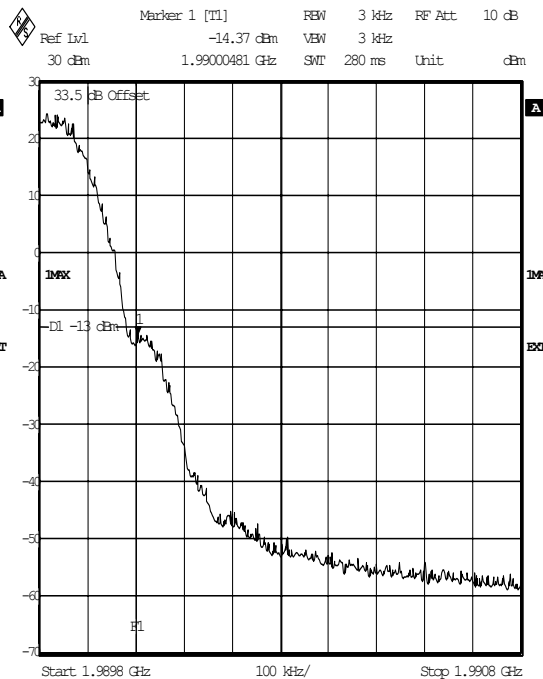
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.98357 | -13.99 | -13.0 | 0.99 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.00481 | -14.37 | -13.0 | 1.37 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch512, CBW Band Edge +31.5dBm Output Power, 8PSK Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 20:20:10



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch610, CBW Band Edge +31.5dBm Output Power, 8PSK Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 20:03:28

Test Of: Ericsson AB.

RBS 2308

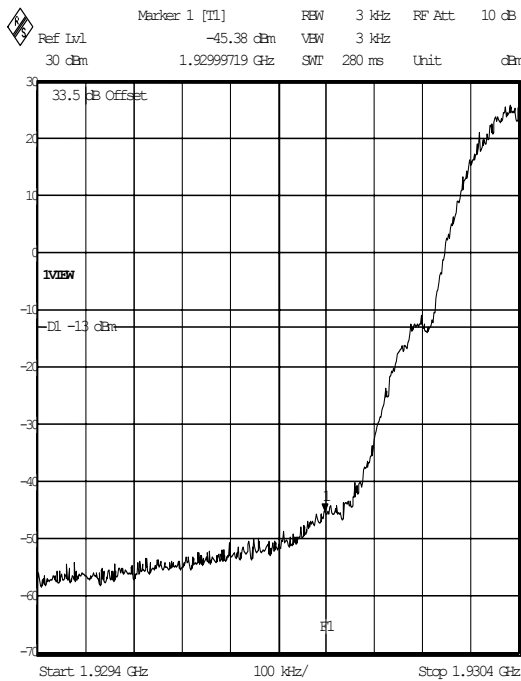
To: FCC Part 24: 2002

Lower Band Edge

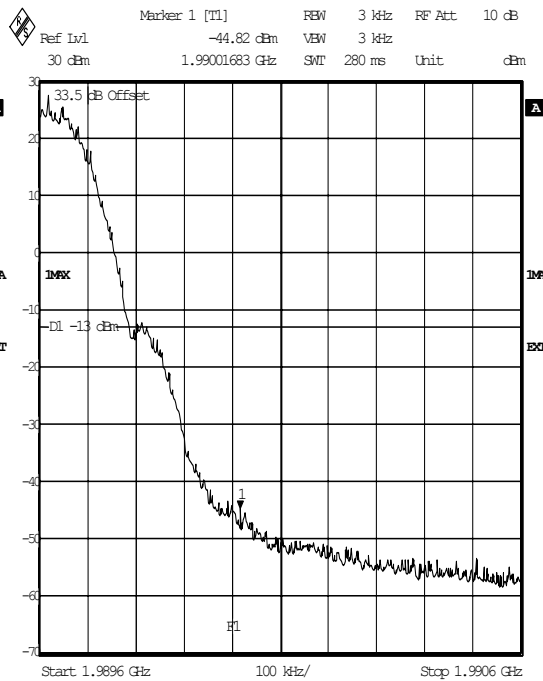
| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBc) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99719 | -45.38 | -13.0 | 32.38 | Complied |

Upper Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1990.01683 | -44.82 | -13.0 | 31.82 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch513, CBW Band Edge +33.5dBm Output Power, 8PSK Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 20:30:29



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch809, CBW Band Edge +33.5dBm Output Power, 8PSK Mode TX2, F
 CC Part 24.238
 Date: 8.MAY.2003 20:10:32

Test Of: Ericsson AB.

RBS 2308

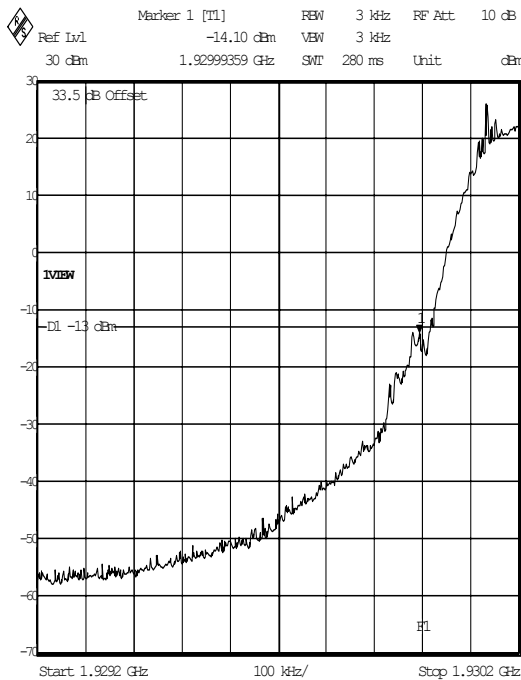
To: FCC Part 24: 2002

7.10. Transmitter Conducted Emissions at Block Edges: Section 2.1051/24.238

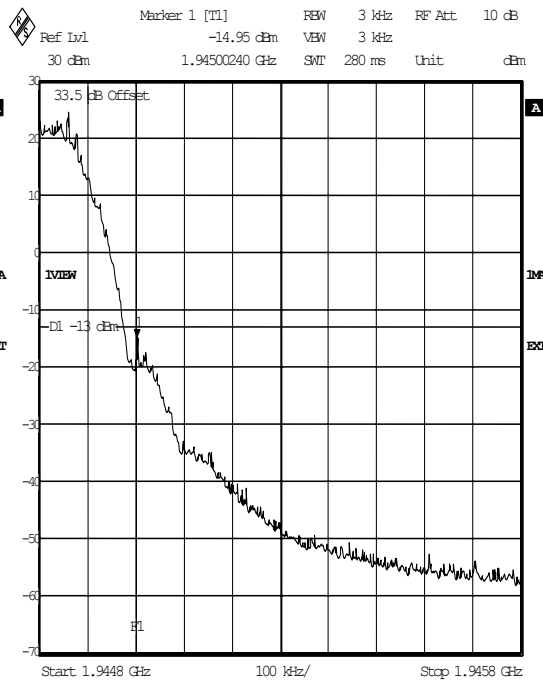
7.10.1. Tests were performed to identify the maximum emissions level at the band edges of the frequency block that the EUT will operate over.

Results: Block A (GMSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99359 | -14.10 | -13.0 | 1.1 | Complied |
| 1945.00240 | -14.95 | -13.0 | 1.95 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch512, CBW Band Edge +33.5dBm Output Power, GMSK Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 18:41:56



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch585, Block Edge +29.5dBm Output Power, GMSK Mode TX0, FCC
 Part 24.238
 Date: 7.MAY.2003 17:04:51

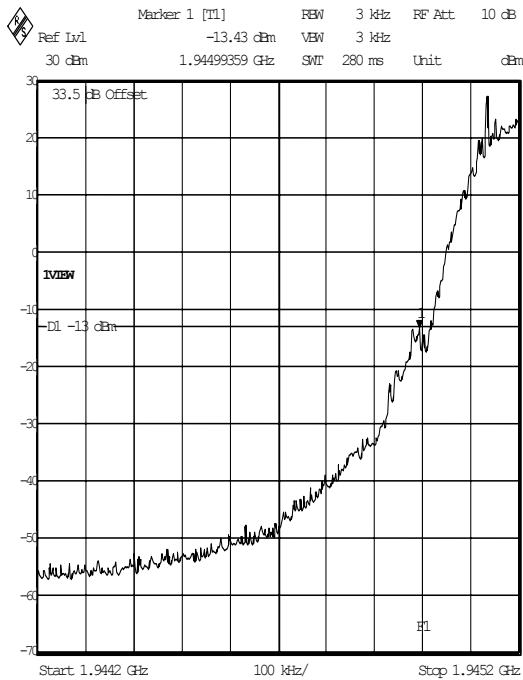
Test Of: Ericsson AB.

RBS 2308

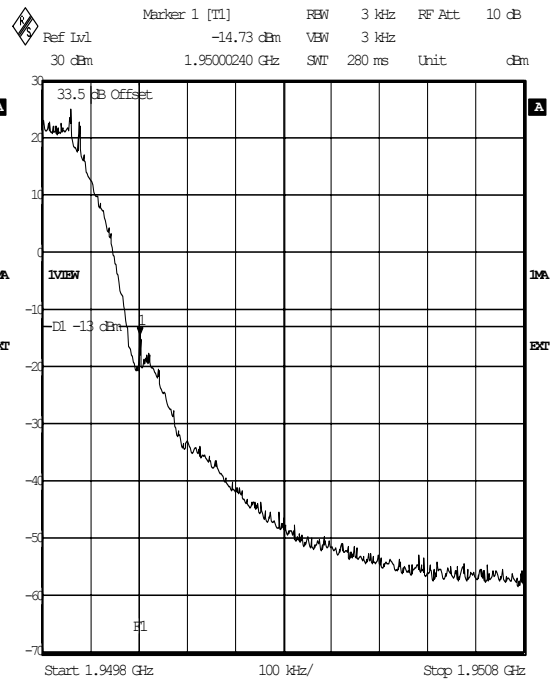
To: FCC Part 24: 2002

Results: Block D (GMSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1944.99859 | -13.43 | -13.0 | 0.43 | Complied |
| 1950.00240 | -14.73 | -13.0 | 1.73 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch587, Block Edge +33.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 18:30:32



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch610, Block Edge +29.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 17:14:58

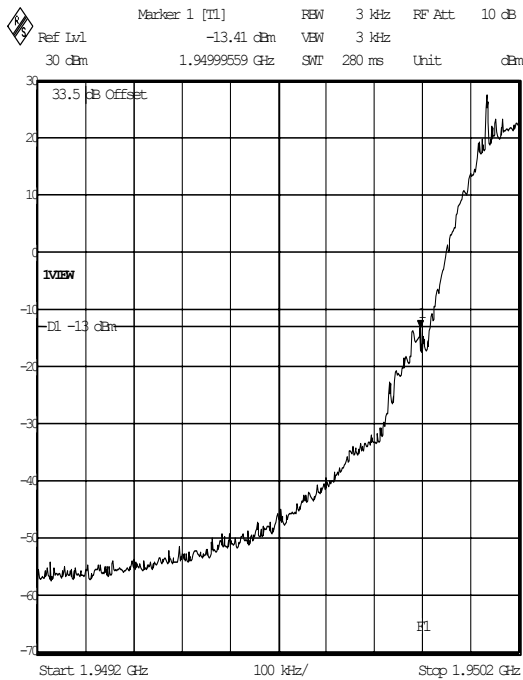
Test Of: Ericsson AB.

RBS 2308

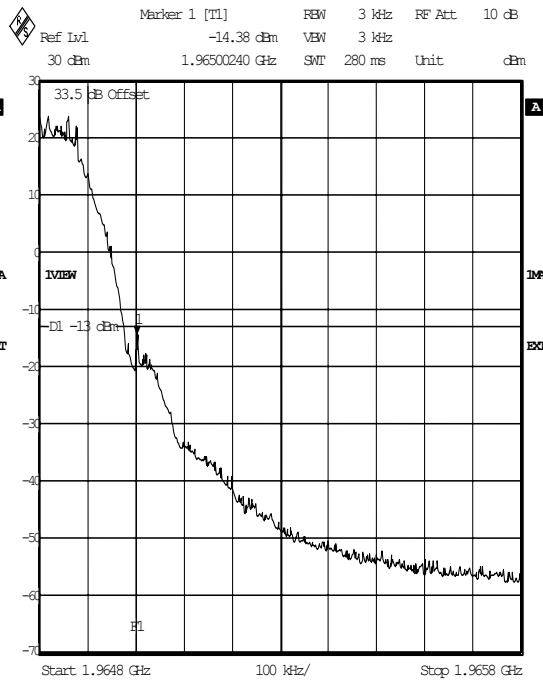
To: FCC Part 24: 2002

Results: Block B (GMSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1949.99559 | -13.41 | -13.0 | 0.41 | Complied |
| 1965.00240 | -14.38 | -13.0 | 1.38 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch612, Block Edge +33.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 18:11:54



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch685, Block Edge +29.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 17:39:22

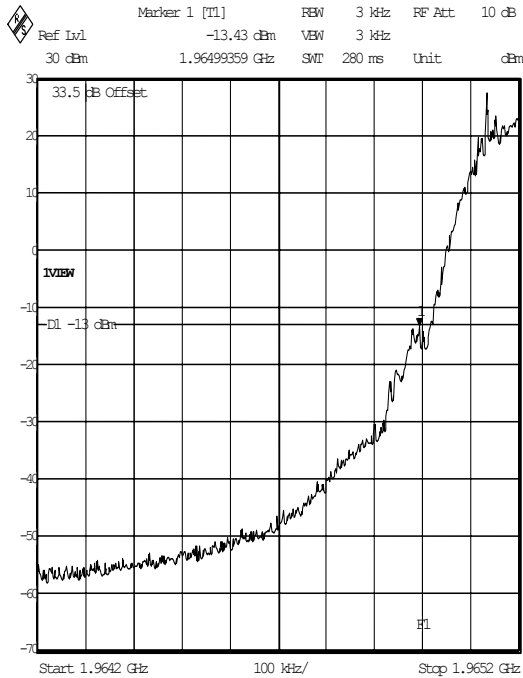
Test Of: Ericsson AB.

RBS 2308

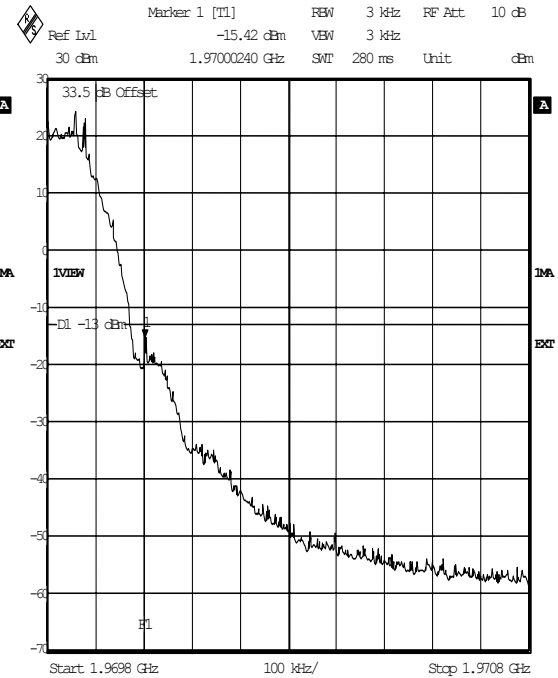
To: FCC Part 24: 2002

Results: Block E (GMSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1964.99359 | -13.43 | -13.0 | 0.43 | Complied |
| 1970.00240 | -15.42 | -13.0 | 2.42 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch687, Block Edge +33.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 18:08:22



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch710, Block Edge +29.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 17:47:21

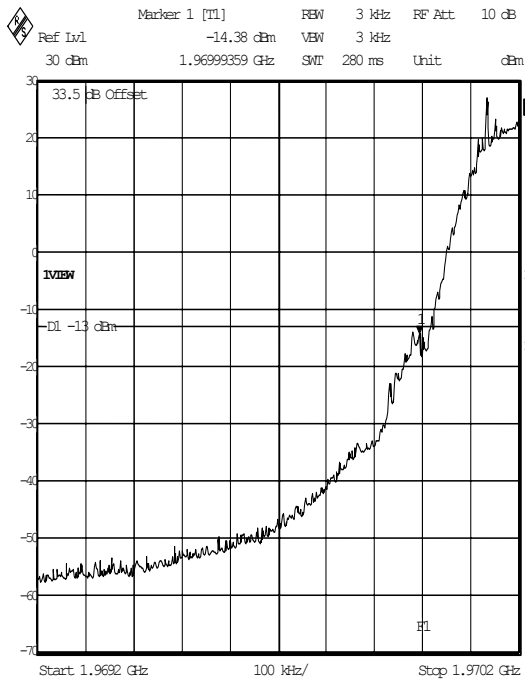
Test Of: Ericsson AB.

RBS 2308

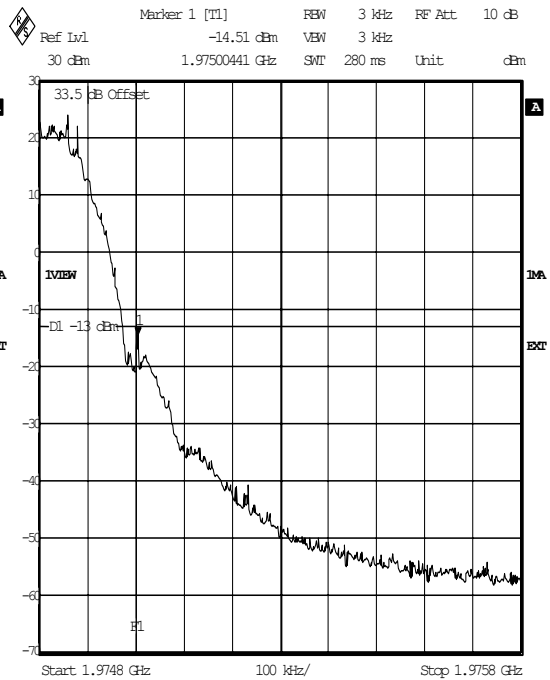
To: FCC Part 24: 2002

Results: Block F (GMSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1969.99359 | -14.38 | -13.0 | 1.38 | Complied |
| 1975.00441 | -14.51 | -13.0 | 1.51 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch712, Block Edge +33.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 18:05:29



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch735, Block Edge +29.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 17:56:19

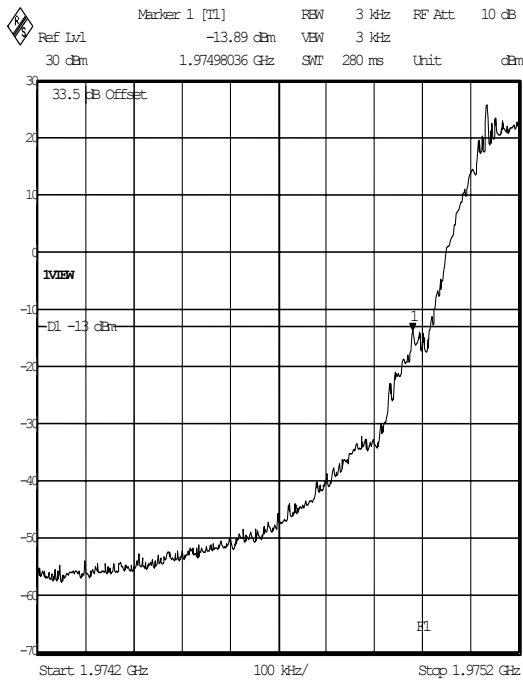
Test Of: Ericsson AB.

RBS 2308

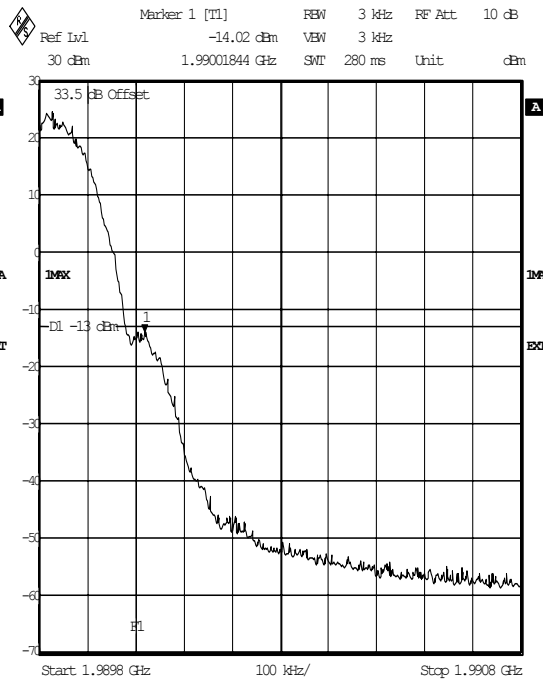
To: FCC Part 24: 2002

Results: Block C (GMSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1974.98036 | -13.89 | -13.0 | 0.89 | Complied |
| 1990.01844 | -14.02 | -13.0 | 1.02 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch737, Block Edge +33.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 18:01:27



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch810, CW Band Edge +31.5dBm Output Power, GMSK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 19:10:41

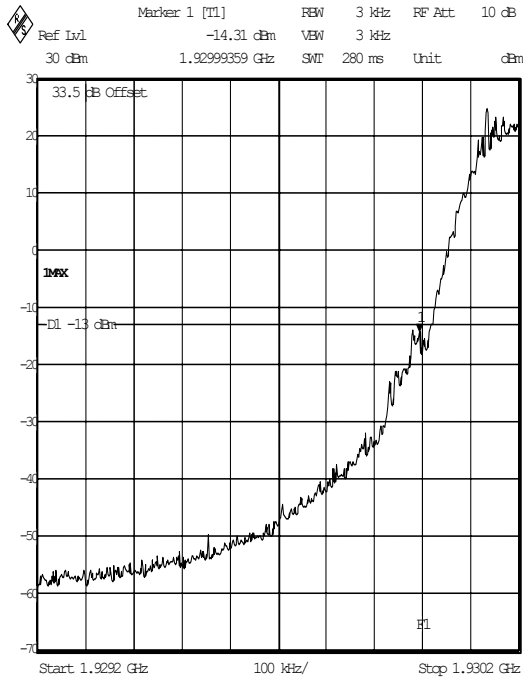
Test Of: Ericsson AB.

RBS 2308

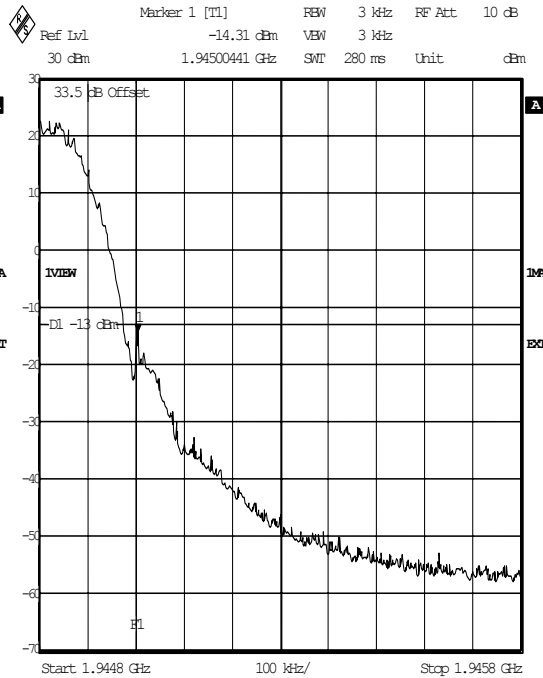
To: FCC Part 24: 2002

Results: Block A (8PSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1929.99859 | -14.31 | -13.0 | 1.31 | Complied |
| 1945.00441 | -14.31 | -13.0 | 1.31 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch512, CW Band Edge +33.5dBm Output Power, 8PSK Mode TX0, F
 CC Part 24.238
 Date: 8.MAY.2003 19:01:22



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch585, Block Edge +29.5dBm Output Power, 8PSK Mode TX0, FCC
 Part 24.238
 Date: 7.MAY.2003 15:09:57

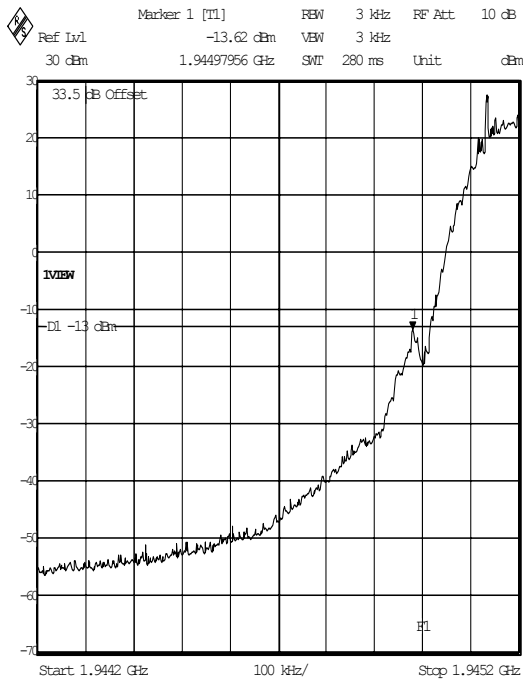
Test Of: Ericsson AB.

RBS 2308

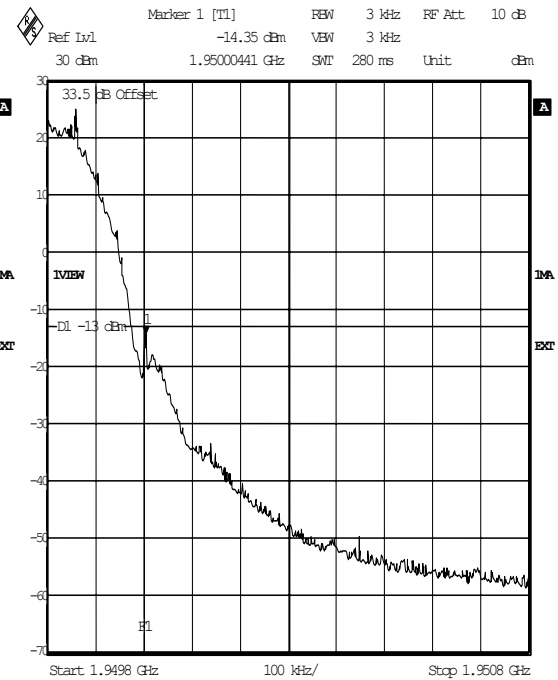
To: FCC Part 24: 2002

Results: Block D (8PSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1944.97956 | -13.62 | -13.0 | 0.62 | Complied |
| 1950.00441 | -14.35 | -13.0 | 1.35 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch587, Block Edge +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 16:45:24



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch610, Block Edge +29.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 15:40:14

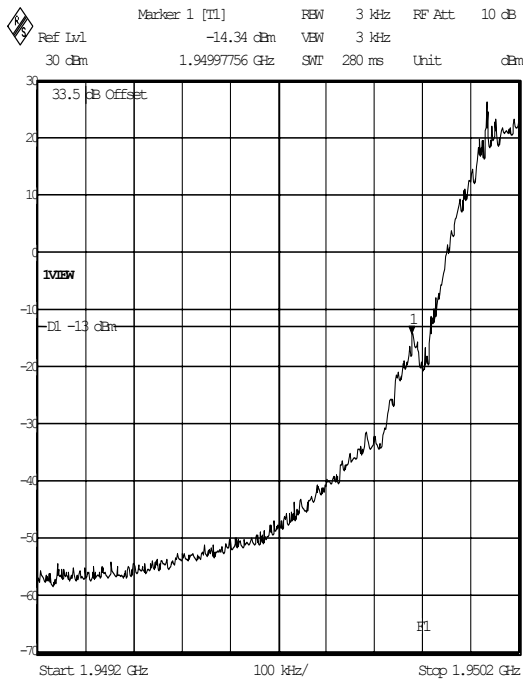
Test Of: Ericsson AB.

RBS 2308

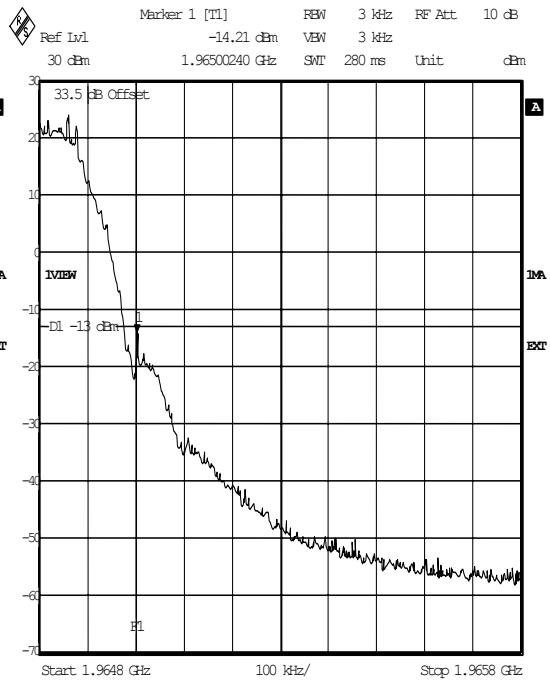
To: FCC Part 24: 2002

Results: Block B (8PSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1949.97756 | -14.34 | -13.0 | 1.34 | Complied |
| 1965.00240 | -14.21 | -13.0 | 1.21 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch612, Block Edge +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 16:33:35



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch685, Block Edge +29.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 15:57:16

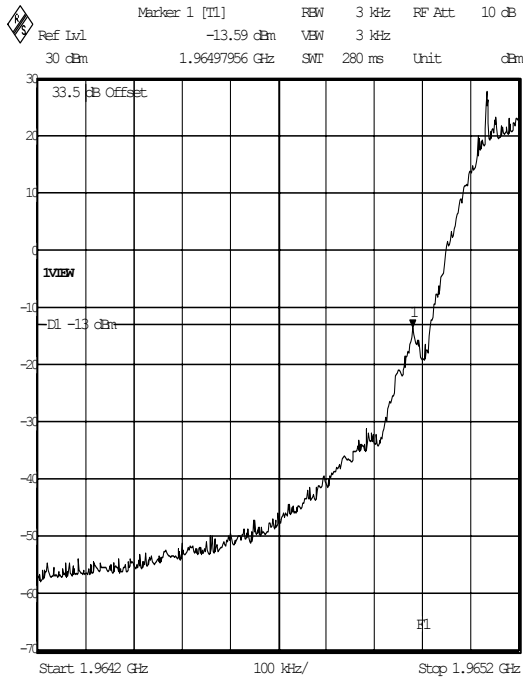
Test Of: Ericsson AB.

RBS 2308

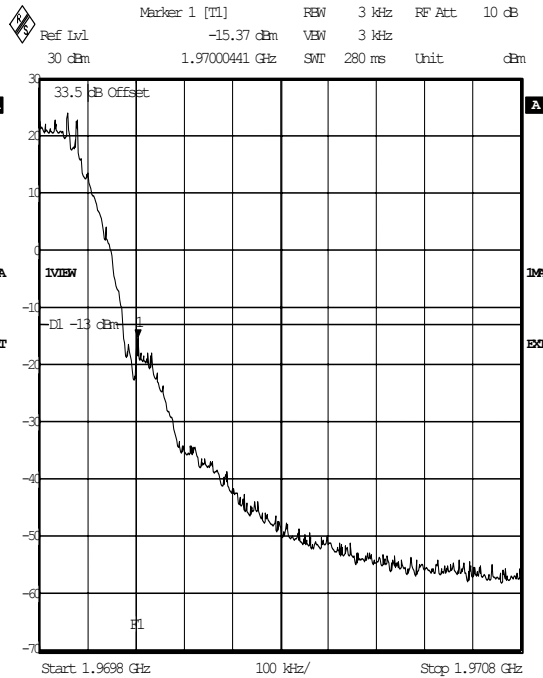
To: FCC Part 24: 2002

Results: Block E (8PSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1964.97956 | -13.59 | -13.0 | 0.59 | Complied |
| 1970.00441 | -15.37 | -13.0 | 2.37 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch687, Block Edge +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 16:31:00



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch710, Block Edge +29.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 16:07:39

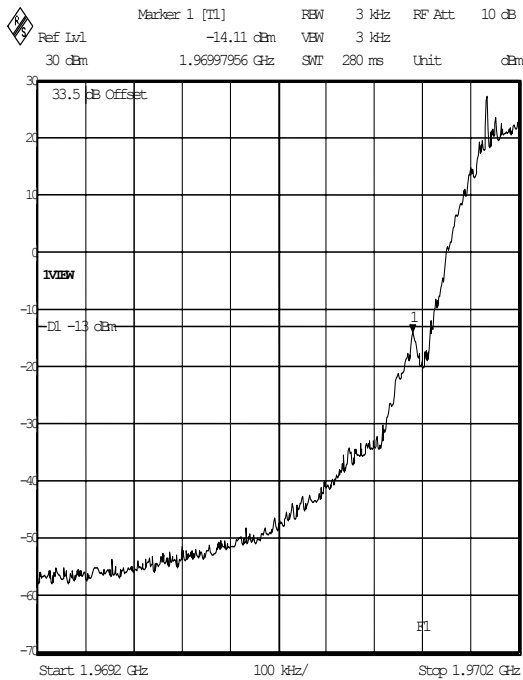
Test Of: Ericsson AB.

RBS 2308

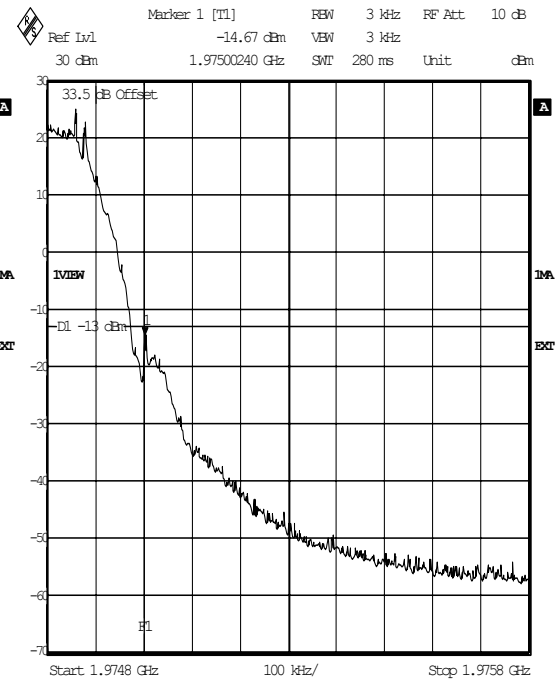
To: FCC Part 24: 2002

Results: Block F (8PSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1969.97956 | -14.11 | -13.0 | 1.11 | Complied |
| 1975.00240 | -14.67 | -13.0 | 1.67 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch712, Block Edge +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 16:27:09



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch735, Block Edge +29.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 16:16:01

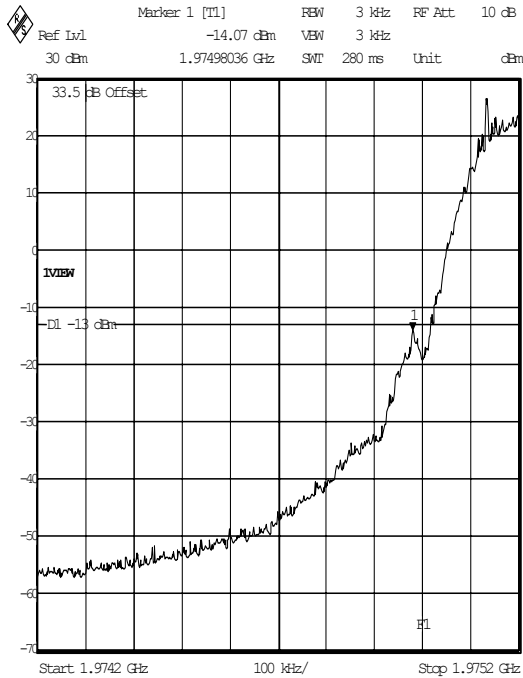
Test Of: Ericsson AB.

RBS 2308

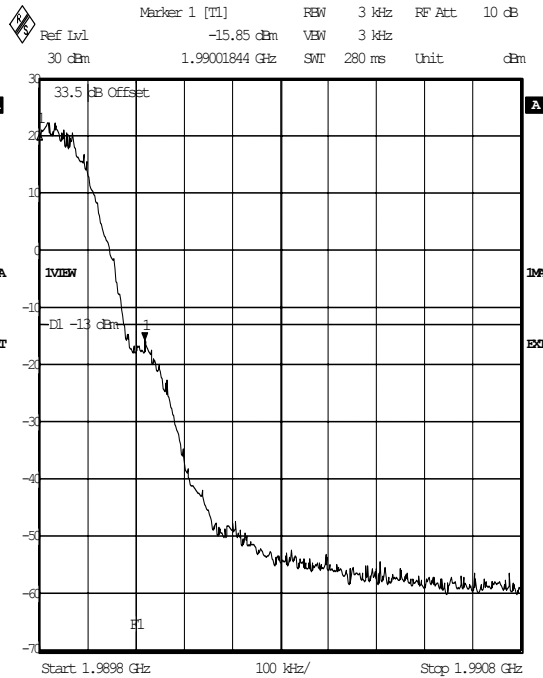
To: FCC Part 24: 2002

Results: Block C (8PSK Mode)

| Frequency (MHz) | Peak Emission Level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|---------------------------|-------------|-------------|----------|
| 1974.98036 | -14.07 | -13.0 | 1.07 | Complied |
| 1990.01844 | -15.85 | -13.0 | 2.85 | Complied |



Title: Testing for Ericsson AB, RBS 2308 1900 MHz, 44801JD01
 Comment A: Ch737, Block Edge +33.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 7.MAY.2003 16:22:17



Title: Testing for Ericsson AB, RBS 2308 1900MHz, 44801JD01
 Comment A: Ch810, CW Band Edge +29.5dBm Output Power, 8PSK Mode TX0, FCC Part 24.238
 Date: 8.MAY.2003 17:43:13

Test Of: Ericsson AB.

RBS 2308

To: FCC Part 24: 2002

7.11. Transmitter Radiated Emissions: Section 2.1053/24.238 (a)

Electric Field Strength Measurements of Spurious Emissions and Intermodulation Products: 30 MHz to 10 GHz

7.11.1. Tests were performed to identify the field strength of spurious emissions as per ANSI/TIA_EIA_603B.

7.11.2. Tests were also performed to identify the field strength of any Intermodulation responses present.

7.11.3. Measurements were performed at 3 m test distance with 1.5 m antenna height in a screened room in the frequency range of 30 MHz to 10 GHz.

7.11.4. The power of any emission outside the frequency band shall be attenuated below the transmitter power (p) by at least $43 + 10 \text{ Log (P)}$ dB.

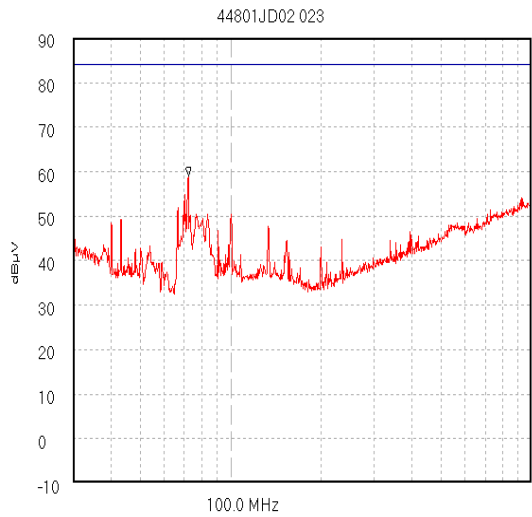
7.11.5. The limit line was determined by radiating -13dBm from a dipole located in place of the EUT and measuring the equivalent field strength at the 3 meters.

7.11.6. Excluding the fundamental emissions, all other indicated spurious and intermodulation responses were at least 20 dB below the relevant limit.

Test Of: Ericsson AB.

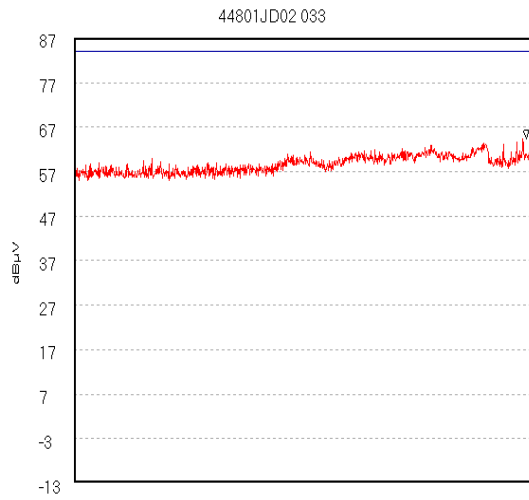
RBS 2308

To: FCC Part 24: 2002



Trace 1
15_109_Class_B

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 380.0 mS
Peak 72.366 MHz, 58.97 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 09:20:50

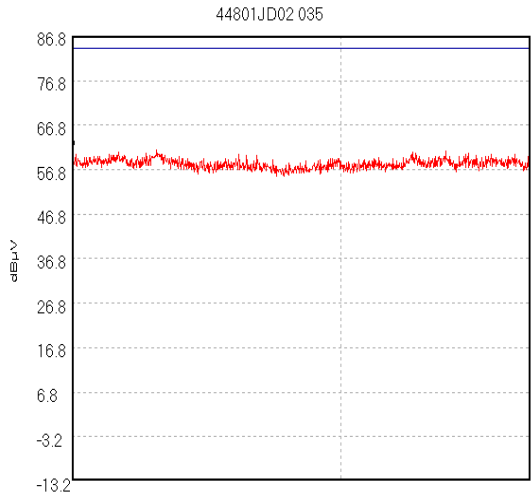


Trace 1
15_109_Class_B

Start 1.0 GHz; Stop 2.0 GHz - Log Scale
Ref 87 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.977 GHz, 64.48 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 11:15:38

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002



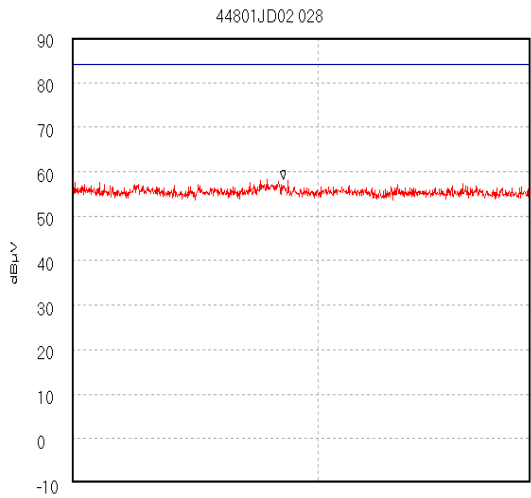
Trace 1
15_109_Class_B

Start 2.0 GHz; Stop 4.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 2.0 GHz; 61.31 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 11:55:36



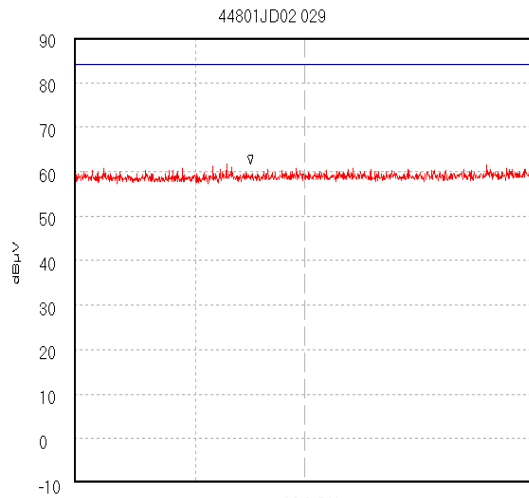
Trace 1
15_109_Class_B

Start 4.0 GHz; Stop 6.0 GHz - Log Scale
Ref 87 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 4.773 GHz; 66.61 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 10:57:43



Trace 1
15_109_Class_B

Start 6.0 GHz; Stop 8.0 GHz - Log Scale
Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 6.851 GHz; 58.36 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 10:23:26



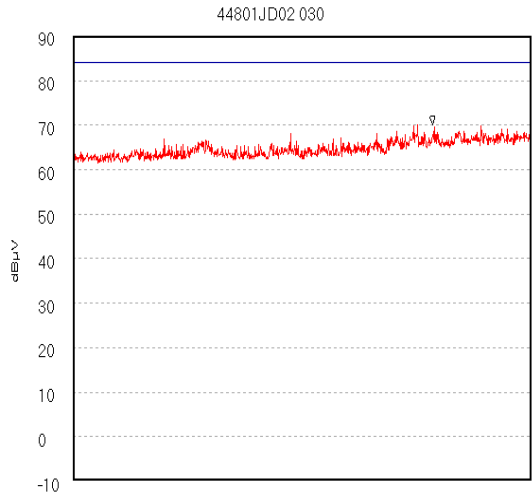
Trace 1
15_109_Class_B

Start 8.0 GHz; Stop 12.5 GHz - Log Scale
Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 9.495 GHz; 61.64 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 10:30:12

Test Of: Ericsson AB.

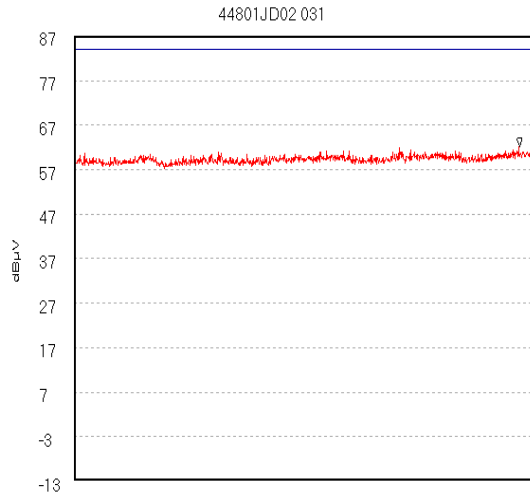
RBS 2308

To: FCC Part 24: 2002



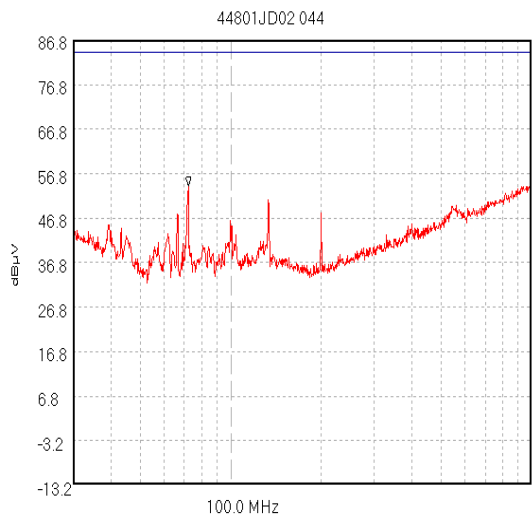
Trace 1
15_109_Class_B

Start 12.5 GHz; Stop 18.0 GHz - Log Scale
Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 16.637 GHz, 70.1 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 10:39:03



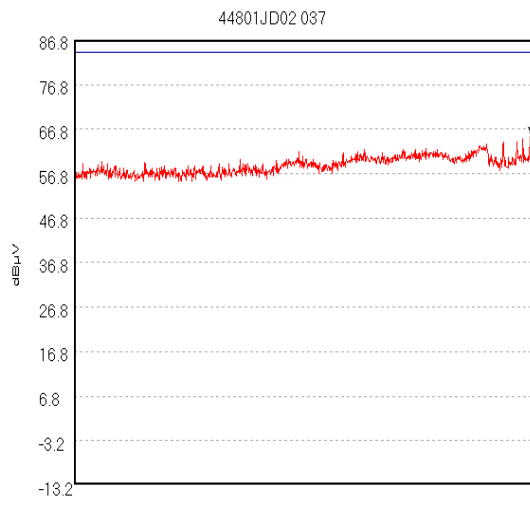
Trace 1
15_109_Class_B

Start 18.0 GHz; Stop 20.0 GHz - Log Scale
Ref 87 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 20.0 mS
Peak 19.936 GHz, 62.27 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 10:51:39



Trace 1
15_109_Class_B

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 380.0 mS
Peak 72.366 MHz, 54.0 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 15:02:24



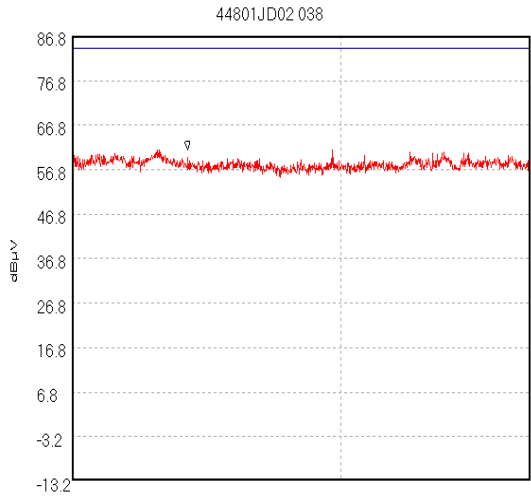
Trace 1
15_109_Class_B

Start 1.0 GHz; Stop 2.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.993 GHz, 65.3 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 13:36:49

Test Of: Ericsson AB.

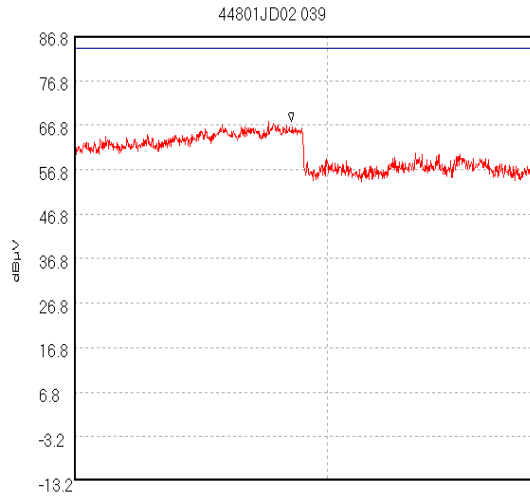
RBS 2308

To: FCC Part 24: 2002



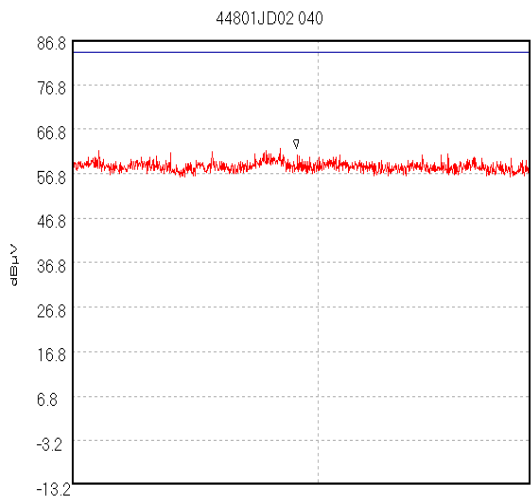
Trace 1
15_109_Class_B

Start 2.0 GHz; Stop 4.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 2.38 GHz, 61.31 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 13:59:20



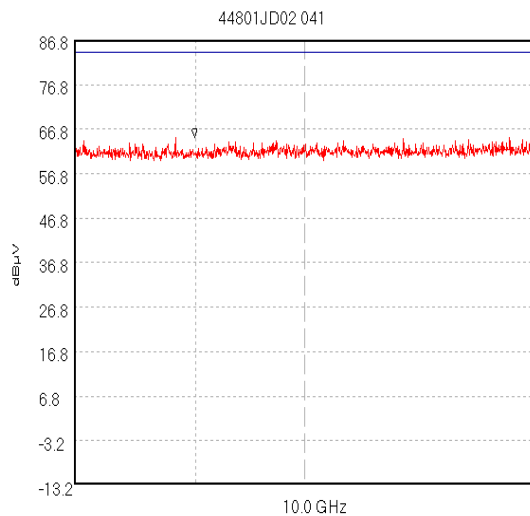
Trace 1
15_109_Class_B

Start 4.0 GHz; Stop 6.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 4.844 GHz, 67.56 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 14:15:35



Trace 1
15_109_Class_B

Start 6.0 GHz; Stop 8.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 6.907 GHz, 62.48 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 14:25:39

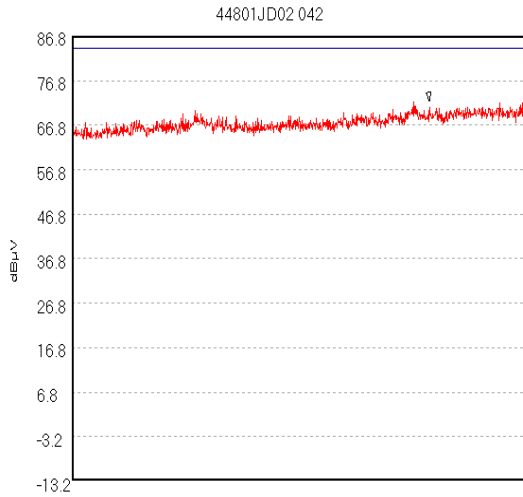


Trace 1
15_109_Class_B

Start 8.0 GHz; Stop 12.5 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 8.99 GHz, 65.02 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 14:34:11

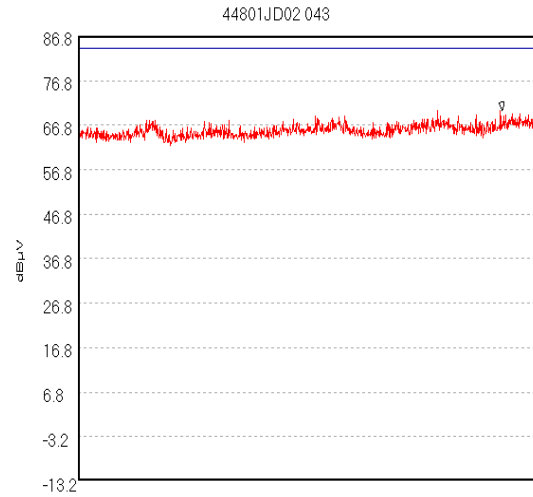
Test Of: Ericsson AB.
RBS 2308

To: FCC Part 24: 2002



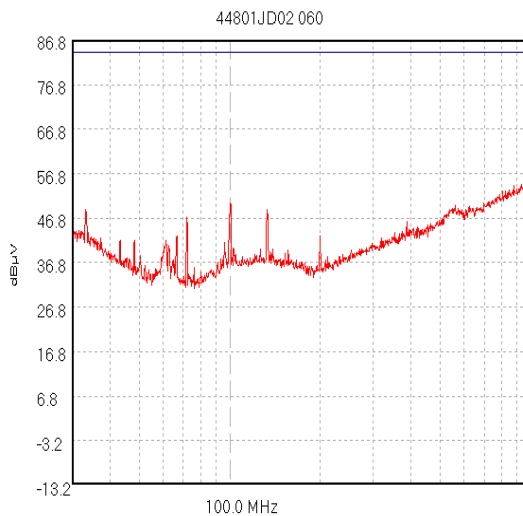
Trace 1
15_109_Class_B

Start 12.5 GHz; Stop 18.0 GHz - Log Scale
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RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 16.601 GHz, 72.15 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 14:43:03



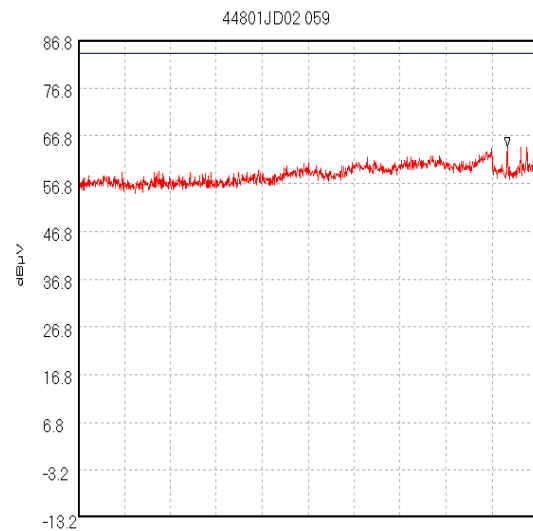
Trace 1
15_109_Class_B

Start 18.0 GHz; Stop 20.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 5 dB; Swp 20.0 mS
Peak 19.838 GHz, 70.1 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 14:53:49



Trace 1
15_109_Class_B

Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 380.0 mS
Peak 965.542 MHz, 54.5 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 18:42:33



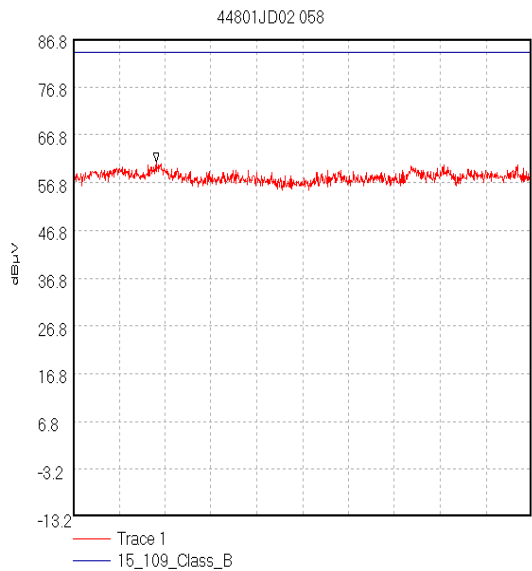
Trace 1
15_109_Class_B

Start 1.0 GHz; Stop 2.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.934 GHz, 64.46 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 18:31:50

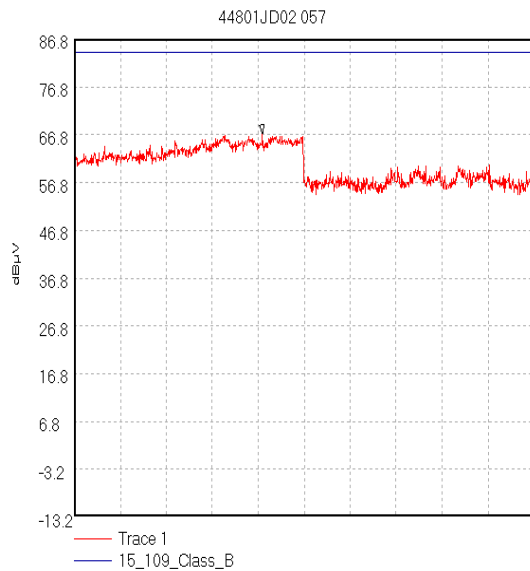
Test Of: Ericsson AB.

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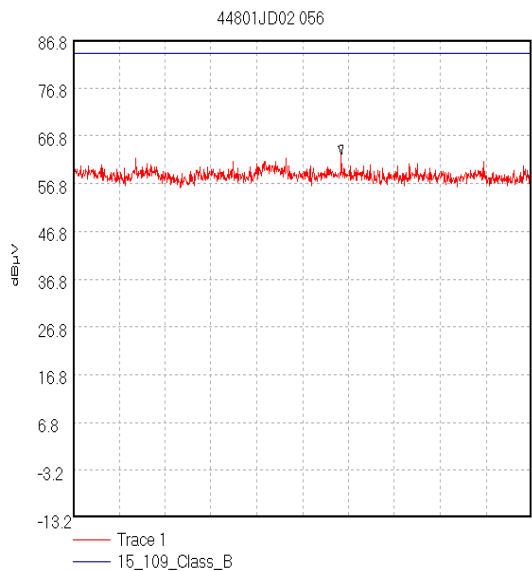
To: FCC Part 24: 2002



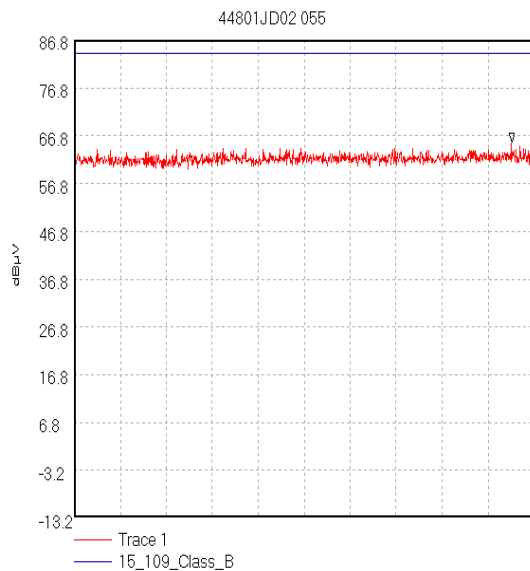
Start 2.0 GHz; Stop 4.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 2.362 GHz; 61.06 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 18:19:15



Start 4.0 GHz; Stop 6.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 4.818 GHz; 67.02 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 18:05:44



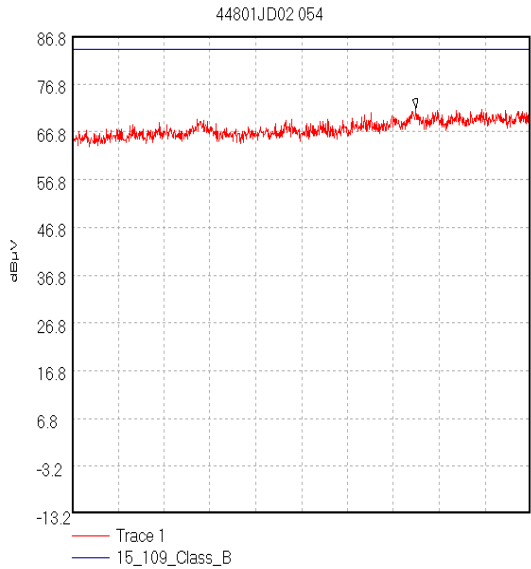
Start 6.0 GHz; Stop 8.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 7.169 GHz; 62.86 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 17:55:11



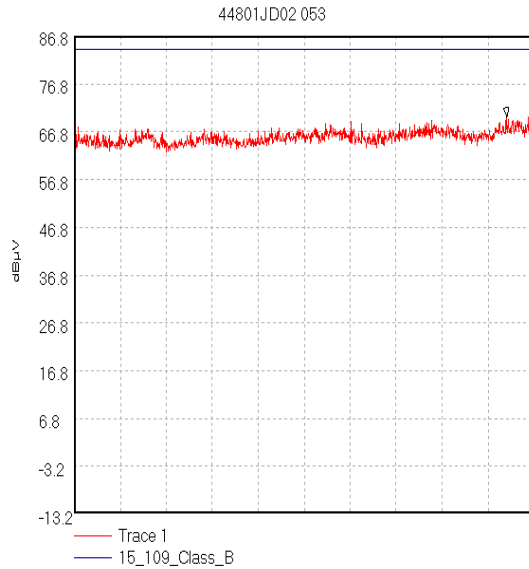
Start 8.0 GHz; Stop 12.5 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 12.285 GHz; 65.35 dBµV
Limit/Mask: 15_109_Class_B; : Limit Test Passed
Transducer Factors: A490
08/05/2003 17:44:17

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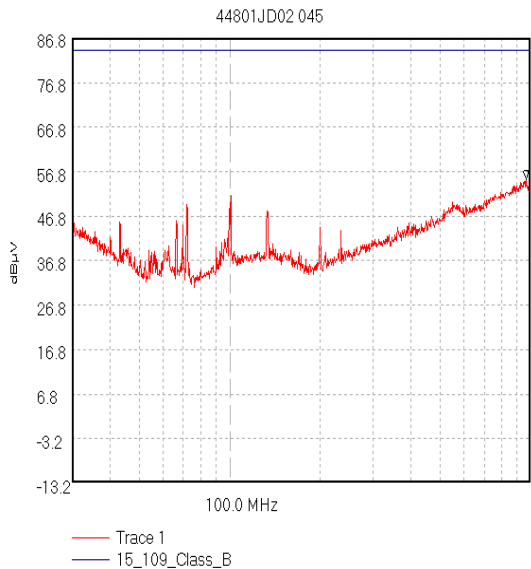
To: FCC Part 24: 2002



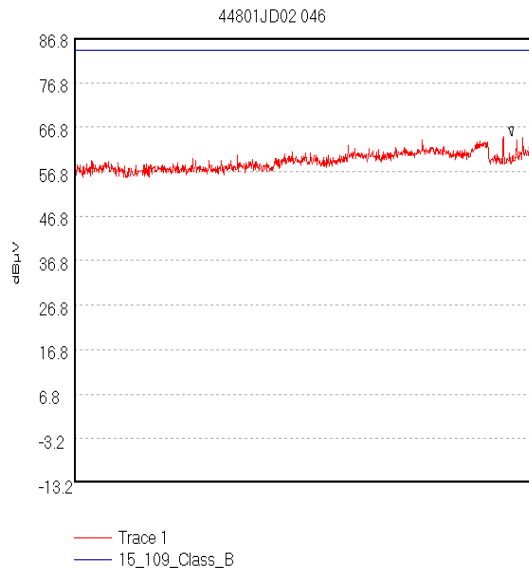
Start 12.5 GHz; Stop 18.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 16.625 GHz; 71.72 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 17:31:06



Start 18.0 GHz; Stop 20.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 5 dB; Swp 20.0 mS
Peak 19.882 GHz; 69.84 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 17:22:58



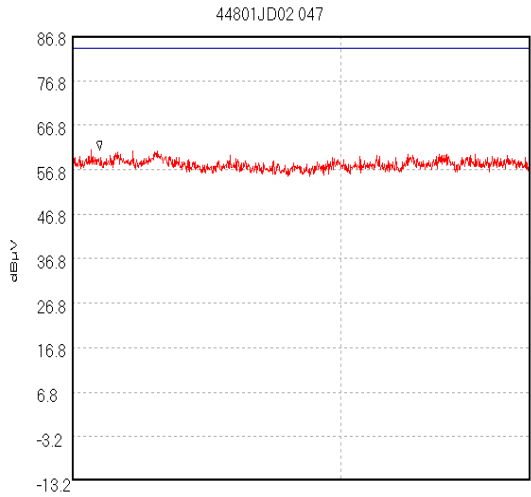
Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 80.0 mS
Peak 965.542 MHz; 55.11 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 15:22:38



Start 1.0 GHz; Stop 2.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 1.934 GHz; 64.81 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 15:43:42

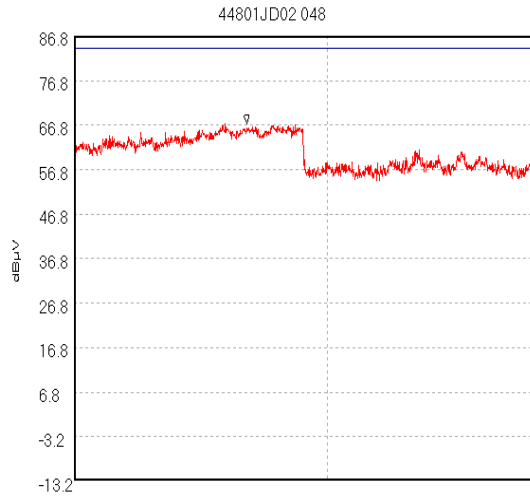
Test Of: Ericsson AB.
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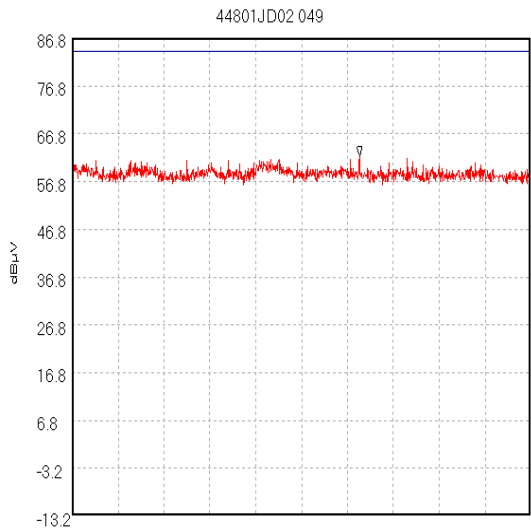
Trace 1
15_109_Class_B

Start 2.0 GHz; Stop 4.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 2.084 GHz; 61.28 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 15:55:18



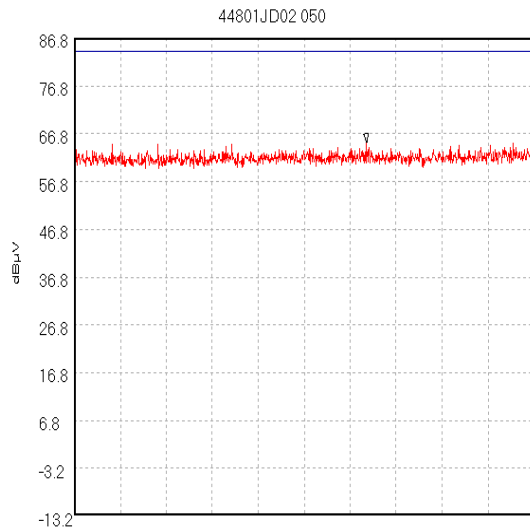
Trace 1
15_109_Class_B

Start 4.0 GHz; Stop 6.0 GHz - Log Scale
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 4.658 GHz; 67.23 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 16:06:24



Trace 1
15_109_Class_B

Start 6.0 GHz; Stop 8.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 20.0 mS
Peak 7.253 GHz; 62.1 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 16:18:34

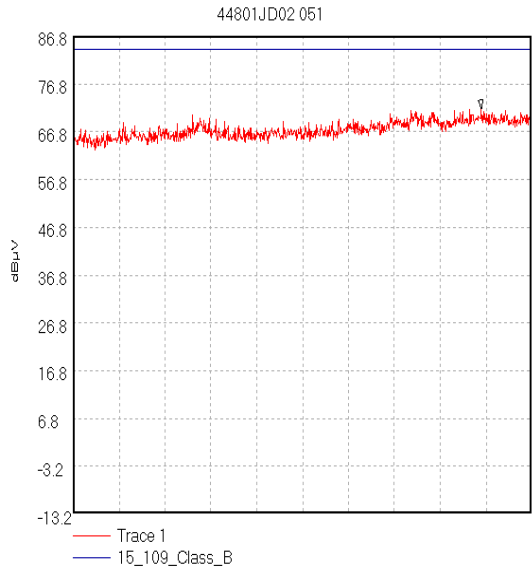


Trace 1
15_109_Class_B

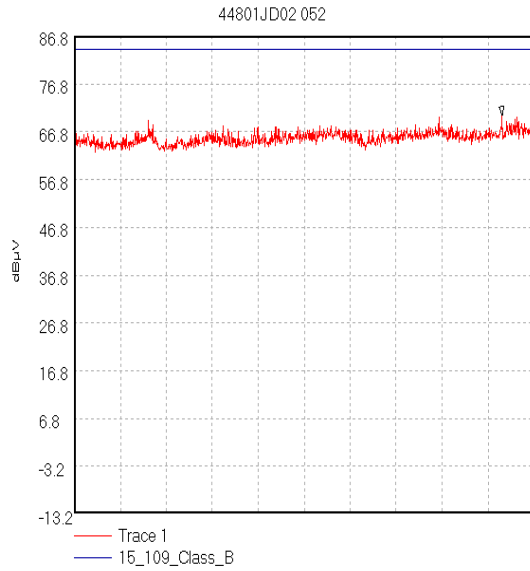
Start 8.0 GHz; Stop 12.5 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 10.86 GHz; 64.89 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
08/05/2003 16:27:44

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Start 12.5 GHz; Stop 18.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 10 dB; Swp 40.0 mS
Peak 17.395 GHz, 71.62 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
03/05/2003 16:45:24



Start 18.0 GHz; Stop 20.0 GHz
Ref 86.8 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 3.0 MHz; Att 5 dB; Swp 20.0 mS
Peak 19.862 GHz, 70.22 dBµV
Limit/Mask: 15_109_Class_B; ; Limit Test Passed
Transducer Factors: A490
03/05/2003 16:53:16

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8. Measurement Uncertainty

8.1. No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

8.2. The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

8.3. The uncertainty of the result may need to be taken into account when interpreting the measurement results.

8.4. The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

| Measurement Type | Range | Confidence Level | Calculated Uncertainty |
|------------------------------|---------------------|-------------------------|-------------------------------|
| Carrier Output Power | Not applicable | 95% | +/- 1.3 dB |
| Frequency Stability | Not applicable | 95% | +/- 11.7 Hz |
| Occupied Bandwidth | 1930 to 1990 MHz | 95% | +/- 11.7 Hz |
| Conducted Spurious Emissions | 0.009 kHz to 26 GHz | 95% | +/- 1.3 dB |
| Radiated Spurious Emissions | 30 MHz to 1000 MHz | 95% | +/- 5.26 dB |
| Radiated Spurious Emissions | 1 GHz to 26 GHz | 95% | +/- 1.78 dB |
| Emissions at Band Edges | 1930 to 1990 MHz | 95% | +/- 1.3 dB |

8.5. The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

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Appendix 1. Test Equipment Used**Test equipment used for testing at Ericsson AB**

| Description | Manufacturer | Model Number | Serial Number |
|---------------------|--------------------|------------------------------------|----------------|
| Signal Analyser | Rohde & Schwarz | FSIQ26 | 838600/010 |
| RF Box | Ericsson | LYP 108 15/2 | 1 |
| Attenuator | Weinschel Corp. | 48-10-34 | BC0458 |
| Cable 1 | Harbour Industries | 2.5 M N-Type to N-Type 27478 LL142 | N/A |
| Cable 2 | Harbour Industries | 2.5 M N-Type to N-Type 27478 LL142 | N/A |
| Cable 3 | Suhner Sucoflex | 0.5 M N-Type to N-Type 104E | SN 1979/4E |
| Cable 4 | Suhner Sucoflex | 0.25 M N-Type to N-Type 104E | SN 7739/4E |
| Cable 5 | Suhner Sucoflex | 0.25 M N-Type to N-Type 104E | SN 7740/4E |
| Network Analyser | Hewlett Packard | HP8720D | US36140166 |
| Multimeter | Fluke | 76 True RMS | 68720337 |
| Temperature Chamber | Vötsch | VCS 7250/S | 58566031900010 |
| Cable 6 | Suhner Sucoflex | 0.25 M N-Type to N-Type 104E | SN 7865/4E |
| Power Supply | Hewlett Packard | 6813A | US37290103 |
| Signal Generator | R&S | SME03 | 843441/003 |
| Power Meter | R&S | NRVS | 827023/075 |
| Power Sensor | R&S | NRV-Z52 | 827191/003 |
| Terminator | Weinschel Corp. | M1426 | BL3577 |
| Notch Filter | K&L | LPY 108 16/1 | - |

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Test equipment used for testing at Radio Frequency Investigation Ltd.

| RFI No. | Instrument | Manufacturer | Type No. | Serial No. |
|---------|-------------------------------|-----------------|-----------------------|---------------|
| A003 | ESH3-Z2 Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 357 881/052 |
| A028 | Horn Antenna | Eaton | 91888-2 | 304 |
| A031 | 2 to 4 GHz Eaton Horn Antenna | Eaton | 91889-2 | 557 |
| A1037 | Chase Bilog Antenna | Chase EMC Ltd | CBL6112B | 2413 |
| A254 | WG 14 Microwave Horn | Flann Microwave | 14240-20 | 139 |
| A255 | WG 16 Microwave Horn | Flann Microwave | 16240-20 | 519 |
| A276 | OATS Positioning Controller | Rohde & Schwarz | HCC | - |
| A428 | WG 12 horn | Flann | 12240-20 | 134 |
| A649 | LISN | Rohde & Schwarz | ESH3-Z5 | 825562/008 |
| C1078 | Rosenberger 3m Cable | Rosenberger | FA210A1030 M5050 | 28464-2 |
| C222 | Cable | Rosenberger | UFA210A-1-1181-70x70 | None |
| C341 | Cable | Andrews | None | None |
| C346 | Coaxial Cable | Rosenberger | UFA210A-1-1181-70x70 | 1932 |
| C364 | BNC Cable | Rosenberger | RG142 | None |
| C453 | Cable | Rosenberger | RG142XX-001-RFIB | C453-10081998 |
| C461 | Cable | Rosenberger | UFA210A-1-1182-704704 | 98H0305 |
| M003 | Spectrum Monitor | Rohde & Schwarz | EZM | 883 580/008 |
| M023 | ESVP Receiver | Rohde & Schwarz | ESVP | 872 991/027 |

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Test Equipment Used (continued)

| RFI No. | Instrument | Manufacturer | Type No. | Serial No. |
|---------|-----------------------------------|-------------------------|----------|-------------------------------------|
| M069 | ESMI Spectrum Analyser / Receiver | Rohde & Schwarz | ESMI | 829 808/007 (DU) / 827 063/008 (RU) |
| M173 | Turntable Controller | R.H.Electrical Services | RH351 | 3510020 |
| M505 | Analyser Display Unit | Rohde & Schwarz | ESAI-D | 825316/010 |
| M506 | RF unit | Rohde & Schwarz | ESBI-RF | 827060/004 |
| S201 | Site 1 | RFI | 1 | - |
| S209 | Site 9 | RFI | 9 | - |

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

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Appendix 2. Measurement Methods

A2.1 Conducted Antenna Port Measurements: FCC Part 2

Spurious measurements at the Antenna port were performed from the lower frequency of the allocated frequency block and from the top frequency of the allocated frequency block to 10 times the highest EUT generated frequency.

A spectrum analyser was connected to the antenna port of the EUT via a suitable cable, RF Attenuator and filters. The total loss of the cable, attenuator and filters were measured and entered as a reference level offset into the spectrum analyser for the losses.

The specified frequency bands were investigated with the transmitter operating at full power on the appropriate channels as described in section 5.2

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A2.2 Frequency Stability

A2.2.1 The EUT and spectrum analyser were configured for conducted antenna port measurements.

A2.2.2 Measurements were performed on the RBS 2308 Cabinet number 2 to determine the frequency stability of the fundamental emission from the EUT, when subjected to variation of ambient temperature and variation of supply voltage.

A2.2.3 Measurements were made at the ARP output connectors.

A2.2.4 The output was connected to a spectrum analyser which was used in GSM BTS analyser mode, via cables and with 30 dB of attenuation in the path.

A2.2.5 Testing was performed for TX0 & TX2 on the Bottom and Top channels

A2.2.6 The ambient temperature was varied from -30°C to +50°C in 10°C steps.

A2.2.7 All transceivers were active and evenly spaced out in the frequency band to simulate worst case. The measured transceiver was set up for 1 timeslot and testing was done over 50 bursts.

A2.2.8 The measured frequency (MHz) was compared to the upper/lower band edge to provide a margin.

Margin (MHz) = $UBEF_{MHz} - MCF_{MHz}$ (for top channel),

Margin (MHz) = $MCF_{MHz} - LBEF_{MHz}$ (for bottom channel),

where

MCF_{MHz} is the measured carrier frequency in MHz

$LBEF_{MHz}$ is the lower band edge carrier frequency in MHz

$UBEF_{MHz}$ is the upper band edge carrier frequency in MHz.

A2.2.9 The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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A2.3 FCC Part 2.1049 (i): Occupied Bandwidth

A2.3.1 The EUT was connected to a spectrum analyser via its antenna port.

A2.3.1 Measurements were performed to determine the Occupied Bandwidth in accordance with FCC Part 2.1049. The Occupied Bandwidth was measured from the fundamental emission at the bottom and top channels for GMSK and 8PSK mode.

A2.3.2 The Occupied Bandwidth was measured with the EUT output connected to a spectrum analyser via cables and with 30 dB of attenuation in the path, the path loss was entered into the spectrum analyser as a reference level offset. Tests were performed to identify the Occupied Bandwidth in accordance with FCC Part 2.1049 with reference to TIA_EIA_603B.

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A2.4 Transmitter Radiated Emissions

Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

Initial pre-scans covering the entire measurement band from the lowest generated frequency declared up to 10 times the highest fundamental frequency were performed within a screened chamber in order to identify frequencies on which the EUT was generating interference. This determined the frequencies from the EUT which required further examination.

The radiated scans were performed at 3 m test distance with 1.5 m antenna height in a anechoic lined screened room in the frequency range of 30.0 MHz to 1.0 GHz. Between 1.0 GHz and 20.0 GHz a 1 m test distance was used. A limit line was set to the specifications limit. Levels within 20dB of this limit were measured where possible, on occasion; the receiver noise floor came within the 20dB boundary.

The limit stated in the standard states that emissions shall be attenuated by at least $43+10 \text{ Log } (P)$ dB below the transmitter power (P), where (P) is the maximum measured fundamental power for the channel under test.

At the shorter test distance of 1 meter all results or limits were corrected using $20\text{log}(D1/D2)$ where D1 and D2 are the respective test distances.

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Appendix 3. Test Configuration Drawings

This Appendix contains the following drawings:

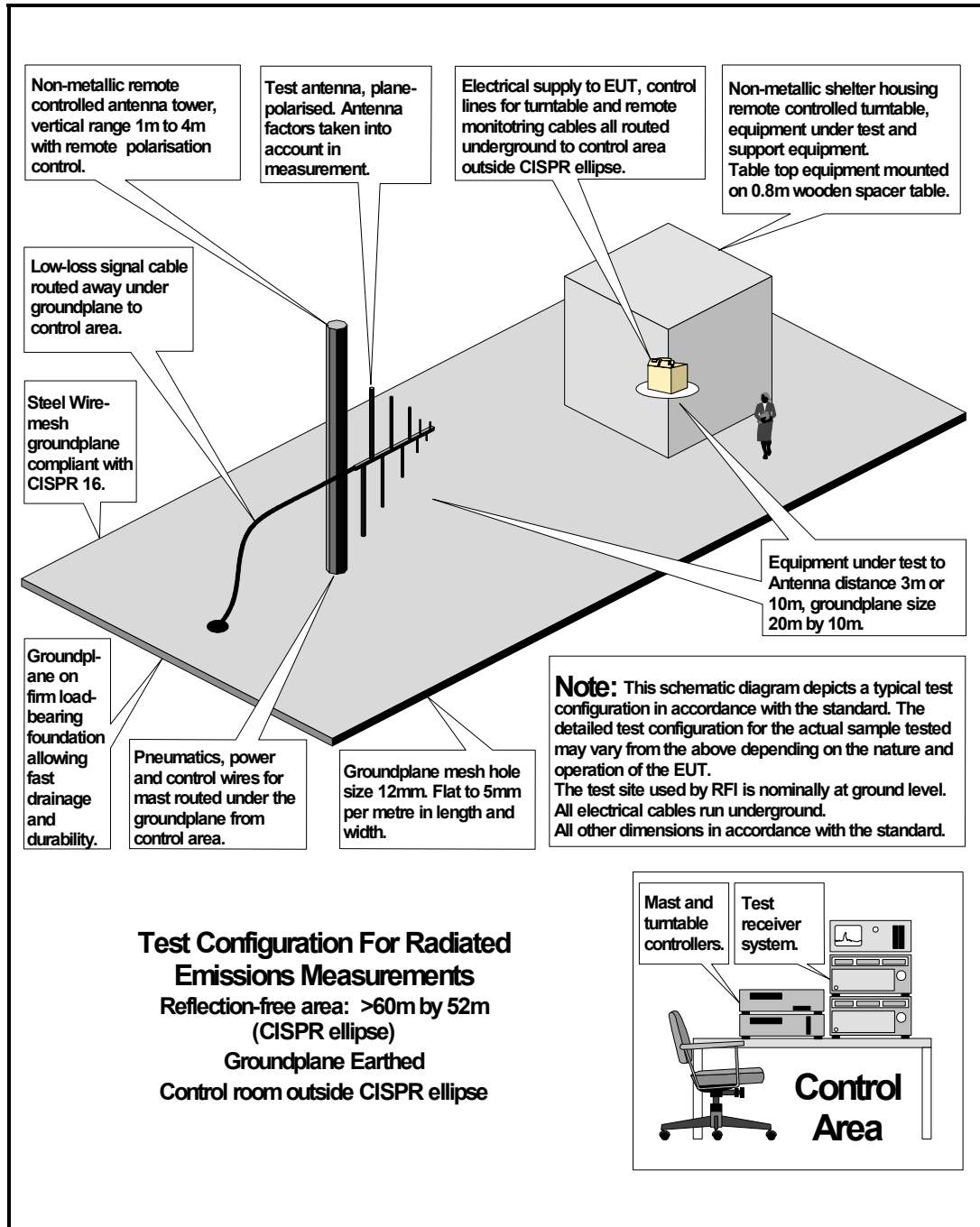
| Drawing Reference Number | Title |
|---------------------------------|--|
| DRG\44801JD01\EMIRAD | Test configuration for measurement of radiated emissions |
| DRG\44801JD01\001 | Schematic diagram of the EUT, support equipment and interconnecting cables |
| DRG\44801JD01\002 | Schematic diagram of the EUT, support equipment and interconnecting cables used for the conducted measurements |

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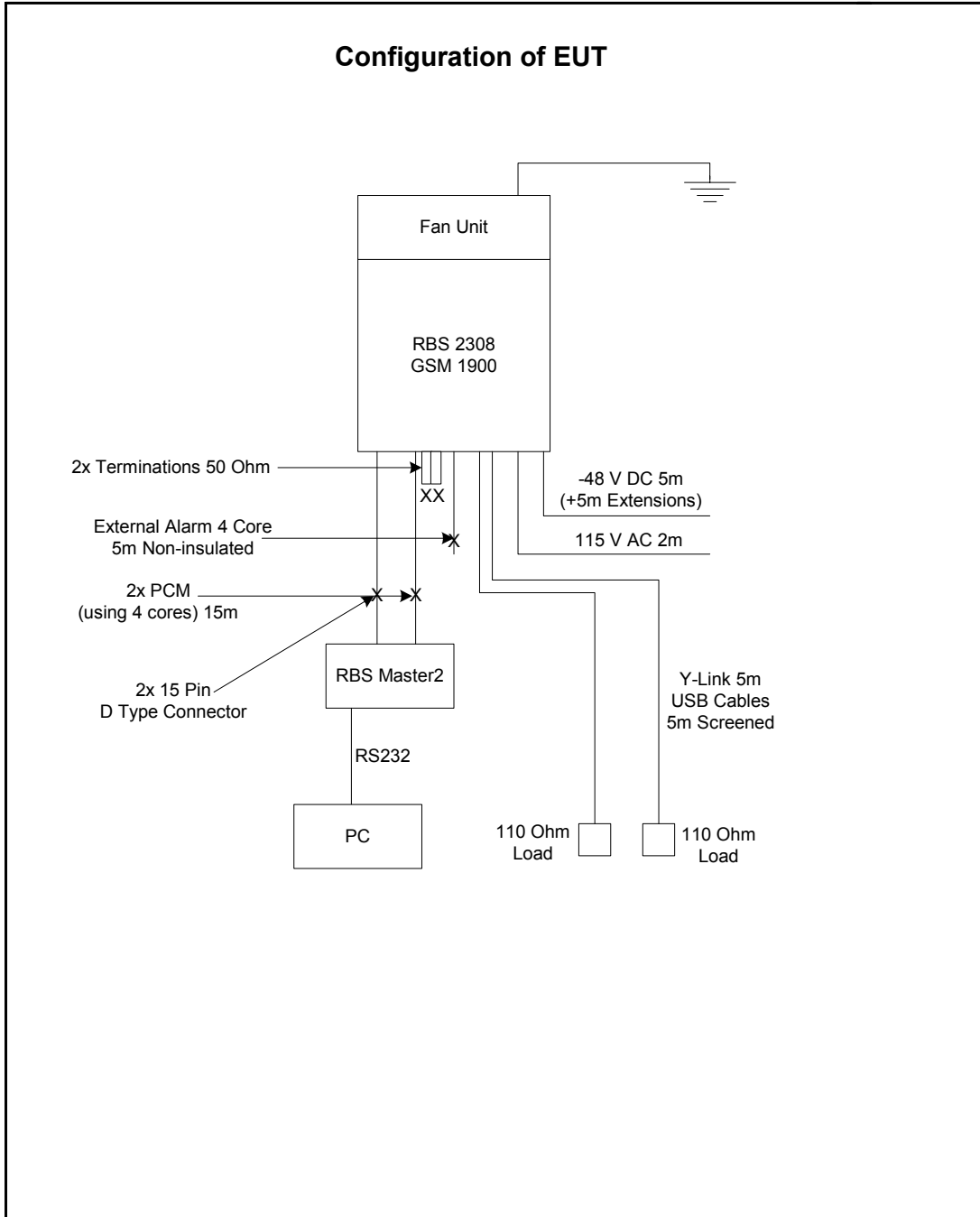
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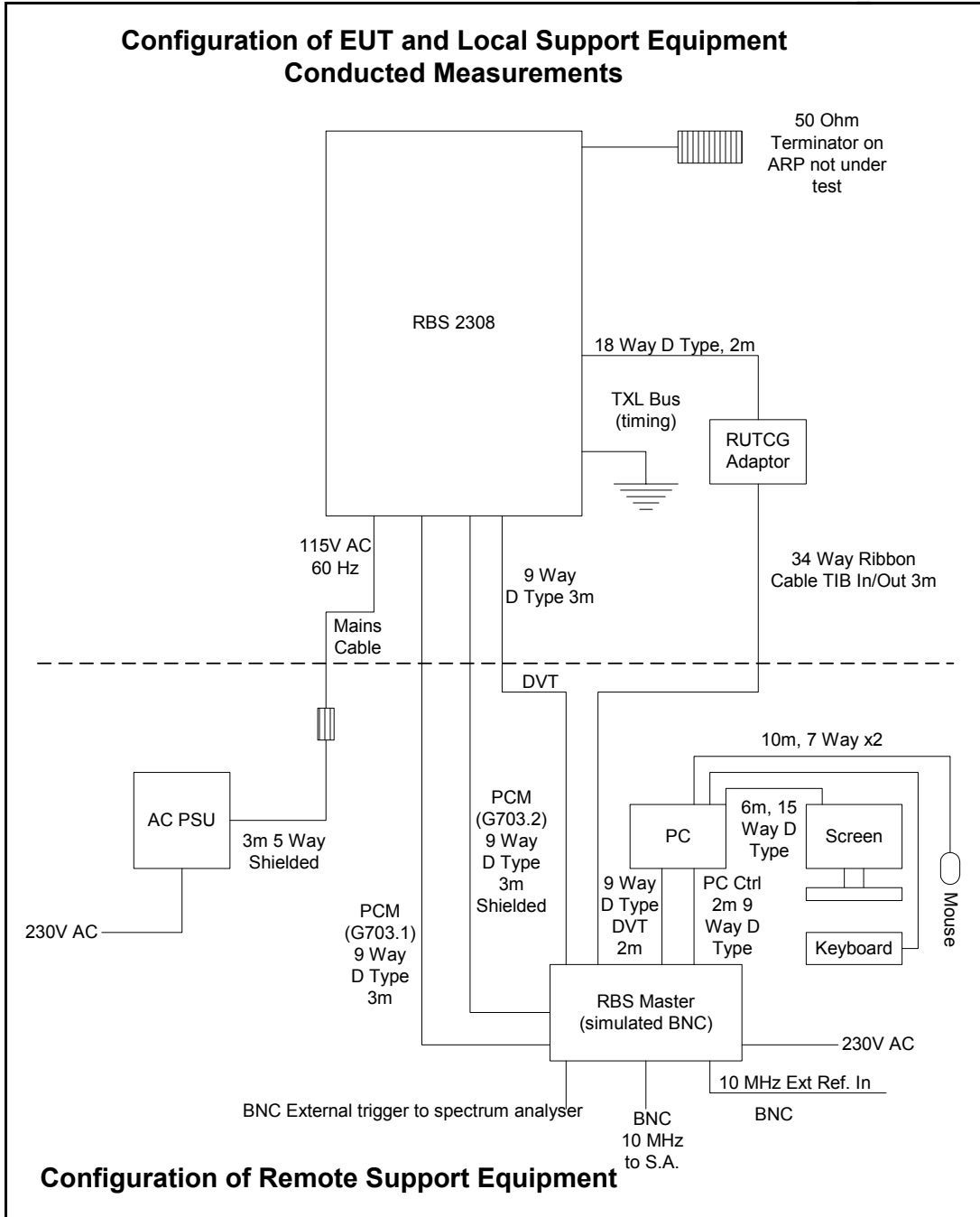
DRG\44801JD01\001



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DRG\44801JD01\002



RADIO FREQUENCY INVESTIGATION LTD.

Conformance Testing Department

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Issue Date: 13 June 2003

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