






# TEST REPORT FROM RADIO FREQUENCY INVESTIGATION LTD.

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)

To: FCC Part 24: 2003

**Test Report Serial No:**  
RFI/MPTB2/RP46053JD01A

**Supersedes Test Report Serial No:**  
RFI/MPTB1/RP46053JD01A

<b>This Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director:</b> 	<b>Checked By:</b> 
<b>Tested By:</b> 	<b>Release Version No: PDF01</b>
<b>Issue Date: 13 May 2004</b>	<b>Test Dates: 24 March 2004 to 13 April 2004</b>

This report is issued in Adobe Acrobat portable document format (PDF). It is only a valid copy of the report if it is being viewed in PDF format with the following security options not allowed: Changing the document, Selecting text and graphics, Adding or changing notes and form fields. Furthermore, the date of creation must match the issue date stated above. This report may be copied in full. 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
---	---

**RADIO FREQUENCY INVESTIGATION LTD.**

**TEST REPORT**

**S.No. RFI/MPTB2/RP46053JD01A**

**Page 2 of 156**

**Issue Date: 13 May 2004**

**Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)**  
**To: FCC Part 24: 2003**

---

This page has been left intentionally blank.

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Table of Contents**

1. Client Information.....	4
2. Equipment Under Test (EUT) .....	5
3. Test Specification, Methods And Procedures .....	13
4. Deviations From The Test Specification .....	15
5. Operation Of The EUT During Testing .....	16
6. Summary Of Test Results.....	17
7. Measurements, Examinations And Derived Results.....	18
8. Measurement Uncertainty .....	140
9. Measurement Methods .....	141
Appendix 1. Test Equipment Used .....	149
Appendix 2. Test Configuration Drawings.....	153

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## 1. Client Information

<b>Company Name:</b>	Ericsson AB.
<b>Address:</b>	Lindholmspiren 11 417 56 Göteborg Sweden
<b>Contact Name:</b>	Mr Pelle Hellberg Mr Jan-Olof Johansson

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

## **2. Equipment Under Test (EUT)**

The following information has been supplied by the client:

### **2.1. Identification Of Equipment Under Test (EUT)**

FCC ID: B5KDKRC1311004-1

No.	Unit	Model Number	Serial Number	Revision Number
1	RBS 2206 1900MHz	SEB 112 1095/1	S763376978	R2B

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

No.	Unit	Model Number	Serial Number	Revision Number
1	RBS 2206 1900MHz	SEB 112 1095/1	S76	PA6

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

### **Hardware List - Conducted Measurements at Mölndal**

Unit	Model Number	Serial Number	Revision Number
Cabinet	SEB 112 1095/1	S763376978	R2B
IDM-01	BMG 980 06/1	T671029073	R2A
dTRU-19	KRC 131 1004/1	AE50726780	R6A
dTRU-19	KRC 131 1004/1	AE50774134	R6A
dTRU-19 EDGE	KRC 131 1004/2	AE50714984	R2C
dTRU-19 EDGE	KRC 131 1004/2	AE50714980	R2C
dTRU-19 EDGE	KRC 131 1004/2	AE50714986	R2C
dTRU-19 EDGE	KRC 131 1004/2	AE50760968	R2C
CXU-10	KRY 101 1856/1	A40003DB4G	R3A
CDU-G 19	BFL 119 153/1	TR40264547	R5F
CDU-G 19	BFL 119 153/1	TR40218896	R5F
CDU-G 19	BFL 119 153/1	TR40220006	R5F
PSU-AC	BML 231 202/1	A083060082	R2F
PSU-AC	BML 231 202/1	A082261664	R2F
PSU-AC	BML 231 202/1	A082261653	R2F
PSU-AC	BML 231 202/1	A082261630	R2F
DXU-21A	BOE 602 14/1	TU82833957	R13B

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Hardware List - Conducted Measurements at Mölndal (Continued)**

Unit	Model Number	Serial Number	Revision Number
ACCU-01	BMG 980 07/1	S792086247	R1A
FCU-01	BGM 136 1001/2	A082763315	R2D
DC-FILTER-01	KFE 101 1145/1	TR20000189	R1A/A
Dummy	SXK 107 5031/2	S76	R1B
Dummy	SXK 107 5031/1	S76	R1B
Dummy	SXK 107 5029/1	S76	R1B
Dummy	SXK 107 5029/1	S76	R1B
Dummy	SXK 107 5029/1	S76	R1B
Dummy	SXK 107 5029/1	S76	R1B

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Hardware List - Radiated Measurements at Basingstoke**

Unit	Model Number	Serial Number	Revision Number
CDU-G 1900	BFL 119153/1	TR40264563	R5F
CDU-G 1900	BFL 119 153/1	TR40263388	R5F
CDU-G 1900	BFL 119153/1	TR40263520	R5F
FCU-01	BGM 1361001/2	B991266272	R3A
dTRU-19	KRC 131 1004/1	AE5077 4135	R6A
dTRU-19	KRC 131 1004/1	AE5077 4136	R6A
dTRU-19 EDGE	KRC 131 1004/2	AE50751393	R2C
dTRU-19 EDGE	KRC 131 1004/2	AE5075 1341	R2C
dTRU-19 EDGE	KRC 131 1004/2	AE5076 0970	R2C
dTRU-19 EDGE	KRC 131 1004/2	AE5076 0971	R2C
PSU AC	BML 231 202/1	TL9263 9858	R3C
PSU AC	BML 231 202/1	TL9256 0848	R3C
PSU AC	BML 231 202/1	TL9256 4610	R3C
PSU AC	BML 231 202/1	TL9256 0828	R3C
DXU-21	BOE 60214/1	TU 8264 8269	R13B
ACU-01	BNG 98007/1	S7920 82061	R1A
DC-Filter-01	KFE 1011145/1	TR2100913	R1A/A

---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

**2.2. Description Of EUT**

The equipment under test is a dTRU-19 GMSK transceiver unit configured in un-combined, combined and combined with TCC modes, operating in the GSM 1900 MHz band.

**2.3. Modifications Incorporated In EUT**

During the course of testing the EUT was not modified.

**2.4. Additional Information Related To Testing**

<b>Power Supply Requirement:</b>	24.0 V DC		
<b>Intended Operating Environment:</b>	Within GSM Network Coverage		
<b>Equipment Category:</b>	Fixed (Base Station)		
<b>Type of Unit:</b>	GSM 1900 MHz Base Transceiver Station		
<b>Interface Ports:</b>	Telecommunication Line –T1 PCM x 4 (G703) TG SYNC – Synchronisation Interface 24 V DC Input DVT – RBS Master Control RF x 12		
<b>Transmit Frequency Range</b>	1930.0 MHz to 1990.0 MHz		
<b>Transmit Channels Tested</b>	<b>Channel ID</b>	<b>Channel Number</b>	<b>Channel Frequency (MHz)</b>
	GMSK	512	1930.2
	GMSK	513	1930.4
	GMSK	661	1960.0
	GMSK	809	1989.6
	GMSK	810	1989.8
<b>Receive Frequency Range</b>	1850 MHz to 1910 MHz		
<b>Maximum Power Output</b>	Without hybrid: +44.5dBm With hybrid: +41.3dBm With TCC: +46.9dBm		



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## **2.5. Support Equipment – Mölndal**

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

<b>Description:</b>	BSC Simulator
<b>Brand Name:</b>	RBS Master 2
<b>Model Name or Number:</b>	LPY 107 1007/1 R1G/A
<b>Serial Number:</b>	0000000222
<b>FCC ID Number:</b>	Not applicable
<b>Cable Length And Type:</b>	3 m, 9 pin, D Type, Shielded
<b>Connected to Port:</b>	G703-1 ABIS
<b>Cable Length And Type:</b>	3 m, 9 pin, D Type, Shielded
<b>Connected to Port:</b>	G.703-2 ABIS
<b>Cable Length And Type:</b>	3 m, 9 pin, D type
<b>Connected to Port:</b>	RBS DVT
<b>Cable Length And Type:</b>	2 m, BNC
<b>Connected to Port:</b>	Ext Ref In
<b>Cable Length And Type:</b>	2 m, BNC
<b>Connected to Port:</b>	TRIG Out
<b>Cable Length And Type:</b>	2 m, BNC
<b>Connected to Port:</b>	10 MHz Out
<b>Cable Length And Type:</b>	1.5 m, 9 Way, D Type
<b>Connected to Port:</b>	PC DVT
<b>Cable Length And Type:</b>	1.5 m, 9 Way, D Type
<b>Connected to Port:</b>	PC Ctrl
<b>Cable Length And Type:</b>	2 m, Mains Cable
<b>Connected to Port:</b>	AC Mains In

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Support Equipment – Mölndal (Continued)**

<b>Description:</b>	Computer
<b>Brand Name:</b>	Compaq
<b>Model Name or Number:</b>	Evo
<b>Serial Number:</b>	CZC3230BNX
<b>FCC ID Number:</b>	Not applicable
<b>Cable Length And Type:</b>	1.5 m, 9 Pin D Type
<b>Connected to Port:</b>	PC DVT
<b>Cable Length And Type:</b>	1.5 m, 9 Pin D Type
<b>Connected to Port:</b>	PC Ctrl
<b>Cable Length And Type:</b>	2 m, Mains Cable
<b>Connected to Port:</b>	AC Input
<b>Cable Length And Type:</b>	0.3 m, GPIB
<b>Connected to Port:</b>	IEEE Bus
<b>Cable Length And Type:</b>	4 m, 8 Core
<b>Connected to Port:</b>	Network
<b>Cable Length And Type:</b>	5 m, 7 Way
<b>Connected to Port:</b>	Mouse
<b>Cable Length And Type:</b>	5 m, 7 Way
<b>Connected to Port:</b>	Keyboard

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **2.6.Support Equipment - Basingstoke**

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

<b>Description</b>	Laptop
<b>Brand Name</b>	Compaq
<b>Model Name or Number</b>	EVO N 400 C
<b>Serial Number</b>	IJ23JTQT07N
<b>Cable Length And Type</b>	Standard Moulded RS232 2m
<b>Connected to Port</b>	PC Control on RBS Master

<b>Description</b>	3 Phase Generator / Controller
<b>Brand Name</b>	Monobloc
<b>Model Name or Number</b>	208 Volt 60Hz Controller
<b>Serial Number</b>	MONO//1
<b>Cable Length And Type</b>	2 x three core mains, 20m
<b>Connected to Port</b>	AC Power In on EUT

<b>Description</b>	Power Supply
<b>Brand Name</b>	Delta Elektronika
<b>Model Name or Number</b>	SM 3540-D
<b>Serial Number</b>	LABSUP//2
<b>Cable Length And Type</b>	2 Core 5m
<b>Connected to Port</b>	DC In on EUT

<b>Description</b>	Power Supply
<b>Brand Name</b>	Delta Elektronika
<b>Model Name or Number</b>	SM 3540-D
<b>Serial Number</b>	LABSUP//3
<b>Cable Length And Type</b>	2 Core 5m
<b>Connected to Port</b>	DC In on EUT

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Support Equipment (Continued)**

<b>Description</b>	RBS Master
<b>Brand Name</b>	Ericsson
<b>Model Name or Number</b>	RBS Master 2
<b>Serial Number</b>	0000000088
<b>Cable Length And Type</b>	4 x G703, 20m
<b>Connected to Port</b>	G703 ports on EUT

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **3. Test Specification, Methods And Procedures**

#### **3.1. Test Specification**

<b>Reference:</b>	FCC Part 24: 2003 Subpart E (Broadband PCS)
<b>Title:</b>	Code of Federal Regulations, Part 24 (47CFR) Personal Communication Services.
<b>Comments:</b>	None.
<b>Purpose of Test:</b>	To determine whether the equipment complied with the requirements of the specification for the purposes of certification.

<b>Reference:</b>	FCC Part 2: 2003
<b>Title:</b>	Code of Federal Regulations, Part 2 (47CFR) Frequency allocations and radio treaty matters; General Rules and Regulations
<b>Comments:</b>	None.
<b>Purpose of Test:</b>	To determine whether the equipment complied with the requirements of the specification for the purposes of certification.

---

**Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)**  
**To: FCC Part 24: 2003**

---

### **3.2. Methods And Procedures**

The methods and procedures used were as detailed in:

47CFR: Part 24 (2003)

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

47CFR: Part 2 (2003)

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 and Procedures section above. Appendix 1 contains a list of the test equipment used.

---

RADIO FREQUENCY INVESTIGATION LTD.

TEST REPORT

S.No: RFI/MPTB2/RP46053JD01A

Page 15 of 156

Issue Date: 13 May 2004

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

#### **4. Deviations From The Test Specification**

None

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## **5. Operation Of The EUT During Testing**

### **5.1. Operating Conditions**

During testing, the EUT was powered by three parallel-connected DC power supplies in order to generate 24V at the RBS 2206. The EUT was tested in a normal laboratory environment.

### **5.2. Operating Modes**

The EUT was tested in the following operating modes, unless otherwise stated.

The EUT was operated in GMSK modulation mode.

The cabinet is populated with six dTru's (double transceiver unit), 2 that support GMSK modulation only, (EUT) and 4 supporting both 8PSK and GMSK modulation, which are used as interferers. Each dTru has 2 transmitter outputs and TX4 and TX5 were tested. All transmitters are identical with regards to operating modes. The cabinet is configured so that two dTRU's are routed through one CDU-G 19.

Frequency Stability was performed without hybrid and with TX4 and TX5 chosen to represent the potential path differences between transceivers routed through the CDU-G 19 unit.

Occupied Bandwidth and Band Edge testing were performed on TX4 and Tx 5 without hybrid and in TCC mode.

Modulation Characteristics were performed without hybrid on TX4 and TX5.

Carrier Output Power, Spurious Emissions and Intermodulation Characteristics were performed without hybrid, with hybrid and in TCC mode on 2 transceivers, TX4 and TX5.

Transmitters TX4 and TX5 are identical in all respects. Testing was performed on these specified TXs 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 ARFCNs tested at Band Edges needed to have their power levels reduced in order to fulfil the requirements. The ARFCNs adjacent to these channels were also tested to show that the requirements were met for these ARFCNs at full output power

### **5.3. Configuration And Peripherals**

The EUT was tested in the following configuration:

As a standalone 12 TRX RBS 2206 base transceiver station configured in un-combined, combined and combined with TCC as stated.

---



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

## **6. Summary Of Test Results**

<b>Range Of Measurements</b>	<b>Specification Reference</b>	<b>Port Type</b>	<b>Compliance Status</b>
Transmitter Carrier Output Power	Part 2 of CFR 47: 2003, Section 2.1046(a)	Antenna Terminals	Complied
Transmitter Modulation Characteristics	Part 2 of CFR 47: 2003, Section 2.1047	Antenna Terminals	Complied
Transmitter Frequency Stability (Temperature Variation)	Part 2 & 24 of CFR 47: 2003, Section 2.1055/24.235	Antenna Terminals	Complied
Transmitter Frequency Stability (Voltage Variation)	Part 2 & 24 of CFR 47: 2003, Section 2.1055/24.235	Antenna Terminals	Complied
Transmitter Occupied Bandwidth	Part 2 & 24 of CFR 47: 2003 Sections 2.1049/24.238	Antenna Terminals	Complied
Transmitter Conducted Out of Band Emissions	Part 2 & 24 of CFR 47: 2003 Sections 2.1051/24.238	Antenna Terminals	Complied
Transmitter Conducted Inband Intermodulation	Part 2 & 24 of CFR 47: 2003 Sections 2.1051/24.238	Antenna Terminals	Complied
Transmitter Conducted Emissions at Band Edges	Part 2 & 24 of CFR 47: 2003 Section 2.1051/24.238	Antenna Terminals	Complied
Electric Field Strength, Spurious Emissions (30.0 MHz to 20.0 GHz)	Part 2 & 24 of CFR 47: 2003 Section 2.1053/24.238	Enclosure	Complied

### **6.1. Location Of Tests**

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

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## **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 section 9 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.

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## **7.2. Transmitter Carrier Output Power: Section 2.1046 (a)**

7.2.1. The EUT was configured as for Conducted Carrier Output Power Measurements testing as described in Section 9 of this report.

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.

### **Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**

#### **Without hybrid:**

#### **GMSK – TX4:**

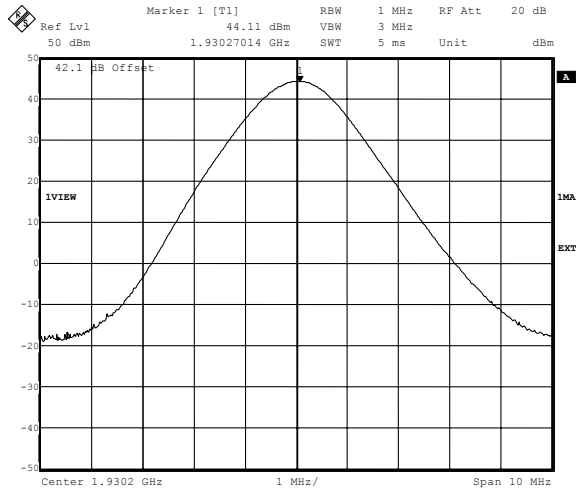
#### **Results:**

Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.27014	44.1
Middle	1960.09018	44.2
Top	1989.83006	44.2

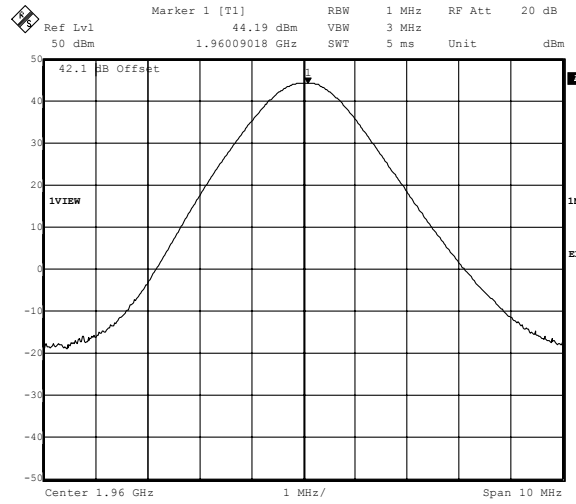
---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

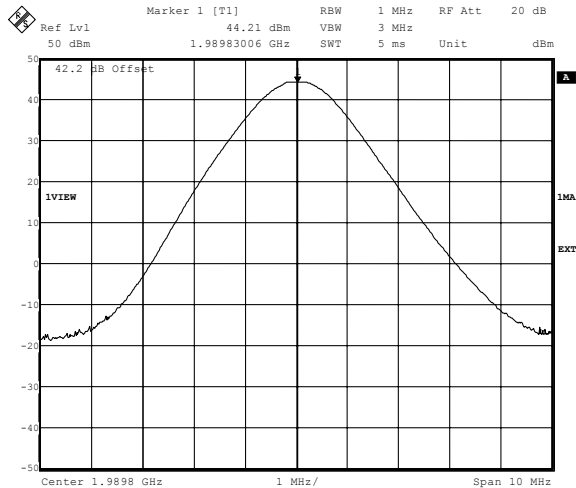
Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch512. Output Power. Without hybrid. GMSK TX4. +44.8dBm  
FCC Part 2.1046(a)  
Date: 29.MAR.2004 17:58:58



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch661. Output Power. Without hybrid. GMSK TX4. +44.8dBm  
FCC Part 2.1046(a)  
Date: 29.MAR.2004 18:00:58



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch810. Output Power. Without hybrid. GMSK TX4. +44.8dBm  
FCC Part 2.1046(a)  
Date: 29.MAR.2004 18:02:50

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**

**GMSK – TX5:**

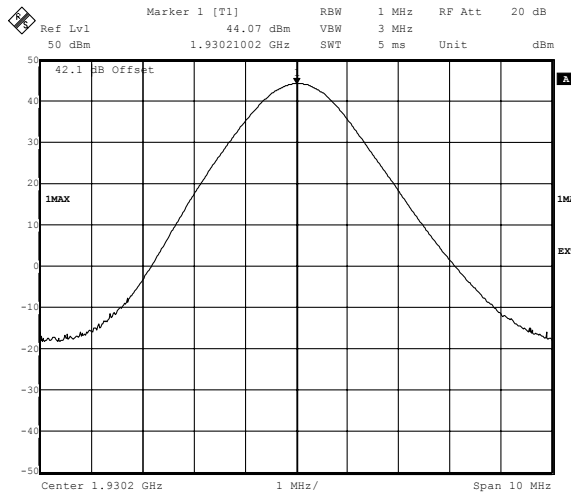
**Results:**

Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.21002	44.1
Middle	1960.03006	44.5
Top	1989.81002	44.3

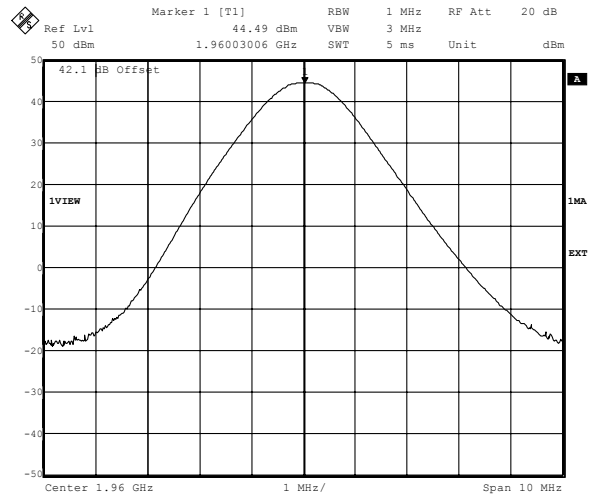
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

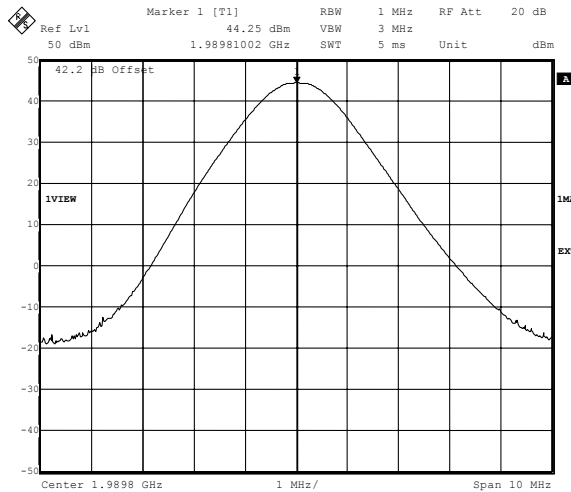
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch512. Output Power. Without hybrid. GMSK TX5. +44.8dBm  
 FCC Part 2.1046(a)  
 Date: 29.MAR.2004 18:12:37



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch661. Output Power. Without hybrid. GMSK TX5. +44.8dBm  
 FCC Part 2.1046(a)  
 Date: 29.MAR.2004 18:14:01



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch810. Output Power. Without hybrid. GMSK TX5. +44.8dBm  
 FCC Part 2.1046(a)  
 Date: 29.MAR.2004 18:16:04

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**

**With hybrid:**

**GMSK – TX4:**

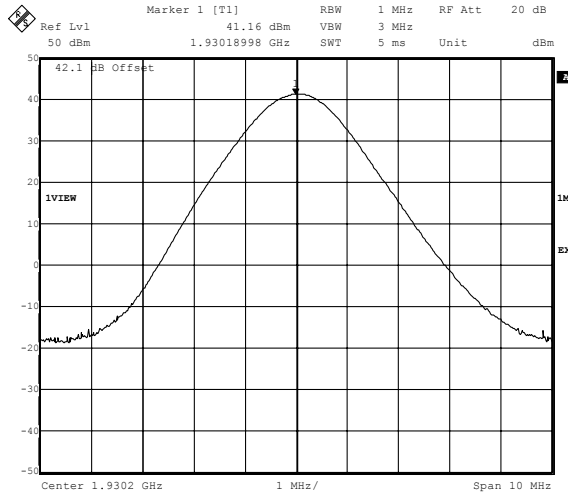
**Results:**

Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.18998	41.2
Middle	1959.98998	41.3
Top	1989.78998	41.3

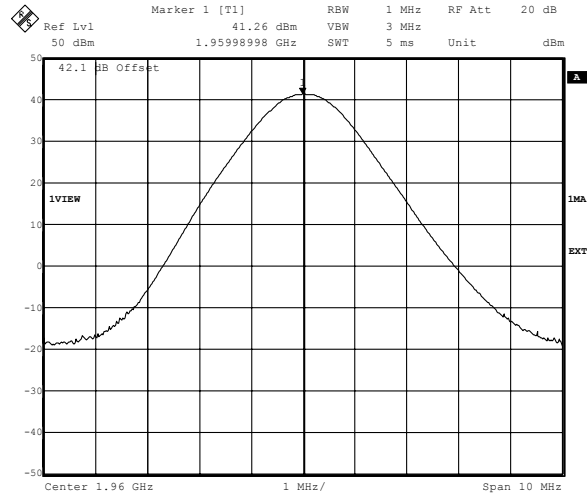
---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

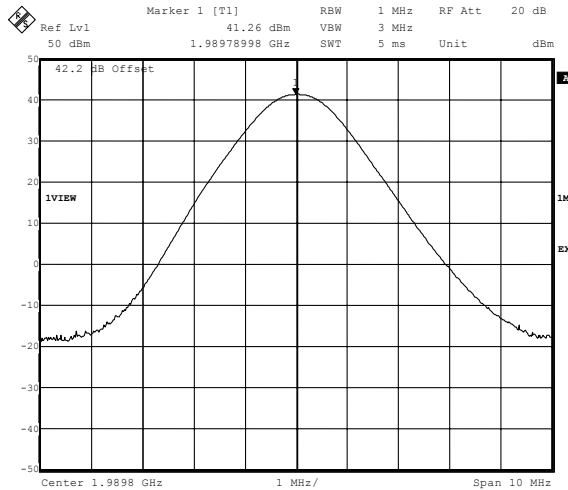
Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch512. Output Power. With hybrid. GMSK TX4. +41.5dBm  
FCC Part 2.1046(a)  
Date: 30.MAR.2004 12:47:59



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch661. Output Power. With hybrid. GMSK TX4. +41.5dBm  
FCC Part 2.1046(a)  
Date: 30.MAR.2004 12:50:03



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch810. Output Power. With hybrid. GMSK TX4. +41.5dBm  
FCC Part 2.1046(a)  
Date: 30.MAR.2004 12:51:44



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**

**GMSK – TX5:**

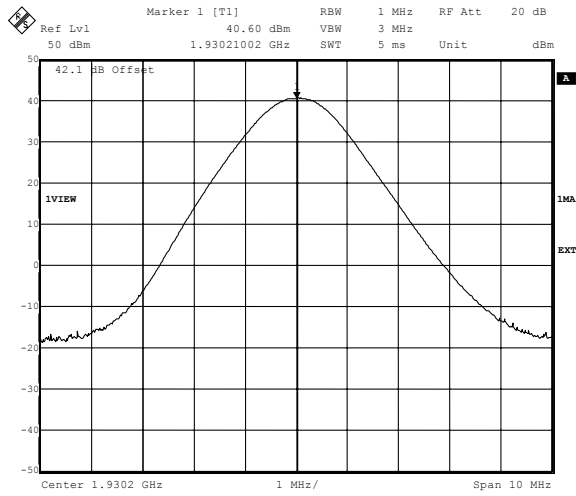
**Results:**

Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.21002	40.6
Middle	1960.03006	40.8
Top	1989.78998	40.6

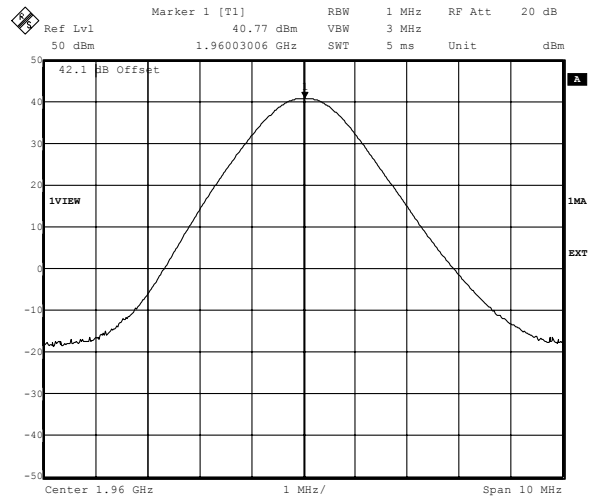
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

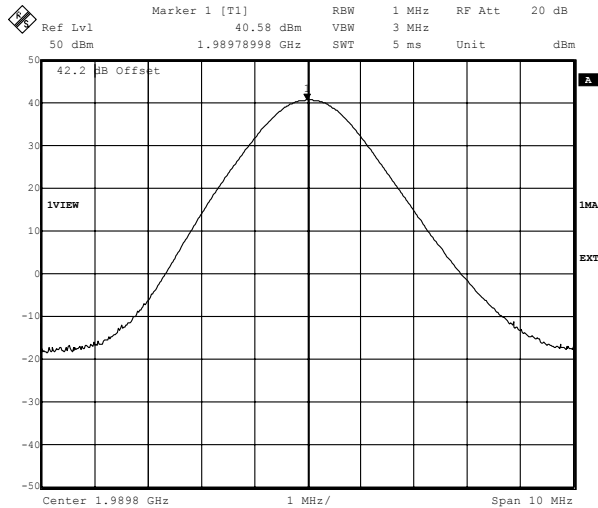
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch512. Output Power. With hybrid. GMSK TX5. +41.5dBm  
 FCC Part 2.1046(a)  
 Date: 30.MAR.2004 13:16:38



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch661. Output Power. With hybrid. GMSK TX5. +41.5dBm  
 FCC Part 2.1046(a)  
 Date: 30.MAR.2004 13:19:29



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch810. Output Power. With hybrid. GMSK TX5. +41.5dBm  
 FCC Part 2.1046(a)  
 Date: 30.MAR.2004 13:22:04

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**

**With TCC:**

**GMSK – TX4&TX5:**

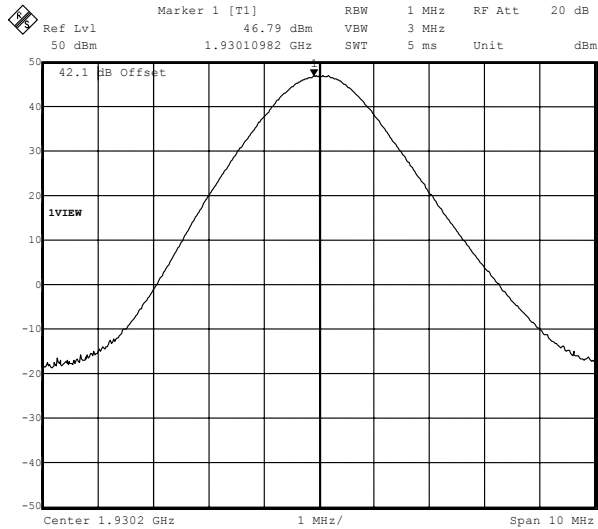
**Results:**

Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.10982	46.8
Middle	1960.07014	46.9
Top	1989.76994	46.8

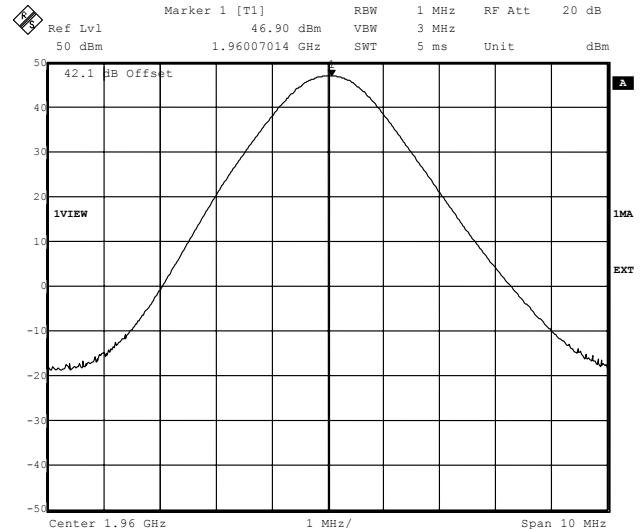
---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

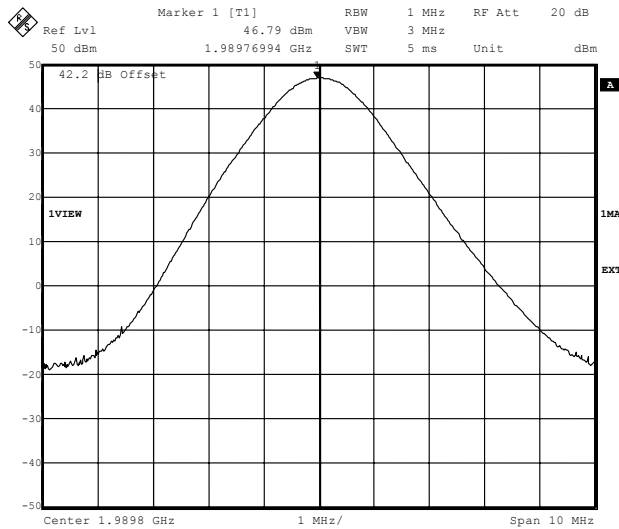
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch512. Output Power. With TCC. GMSK TX4+TX5. +47.5dBm  
FCC Part 2.1046(a)  
Date: 30.MAR.2004 15:28:36



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch661. Output Power. With TCC. GMSK TX4+TX5. +47.5 dBm  
FCC Part 2.1046(a)  
Date: 30.MAR.2004 15:38:18



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch810. Output Power. With TCC. GMSK TX4+TX5. +47.5dBm  
FCC Part 2.1046(a)  
Date: 30.MAR.2004 15:31:39

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **7.3. Transmitter Modulation Characteristics: Section 2.1047**

7.3.1. The EUT was configured as for Modulation Characteristics testing as described in Section 9 of this report.

7.3.2. Tests were performed to identify the modulation characteristics in accordance with FCC Part 2.1047, with reference to TIA\_EIA\_603B.

#### **Without hybrid:**

#### **Results: GMSK – TX4&TX5: Middle Channel**

GMSK	Phase Error (°)	
	TX4	TX5
Phase Error	4.99	4.87
Max	4.99	

---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

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

7.4.1. The EUT was configured as for frequency stability measurements as described in Section 9 of this report.

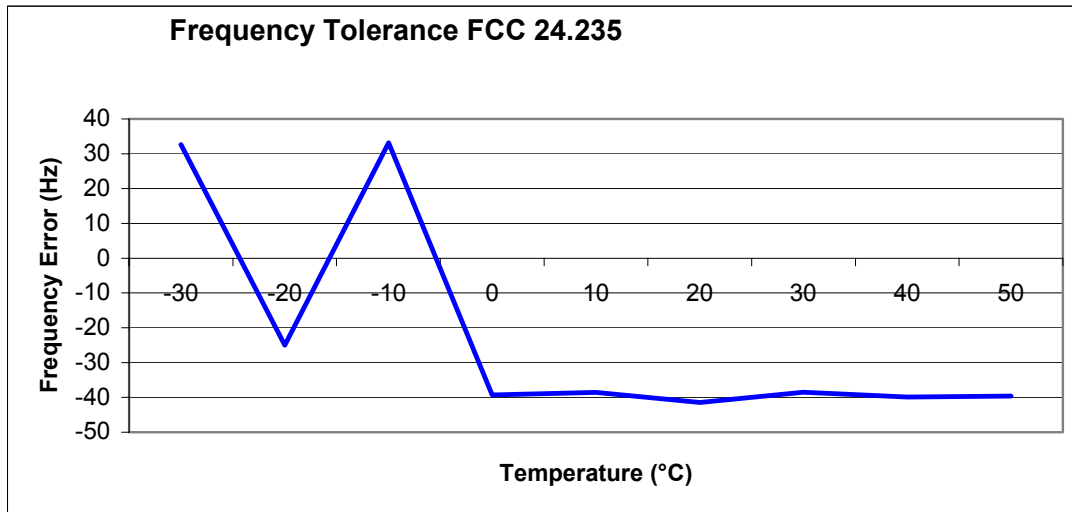
7.4.2. Tests were performed to identify the maximum frequency error of the EUT with variations in ambient temperature.

**Without hybrid:**

**Results: GMSK – TX4**  
**Channel: 512 (1930.2 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1930.20003261	1930.0	32.61	0.20003261	Complied
-20	1930.19997495	1930.0	-25.05	0.19997495	Complied
-10	1930.20003319	1930.0	33.19	0.20003319	Complied
0	1930.19996074	1930.0	-39.26	0.19996074	Complied
10	1930.19996139	1930.0	-38.61	0.19996139	Complied
20	1930.19995854	1930.0	-41.46	0.19995854	Complied
30	1930.19996552	1930.0	-38.48	0.19996552	Complied
40	1930.19996009	1930.0	-39.91	0.19996009	Complied
50	1930.19996035	1930.0	-39.65	0.19996035	Complied

**Frequency Variation From 1930.2 MHz**



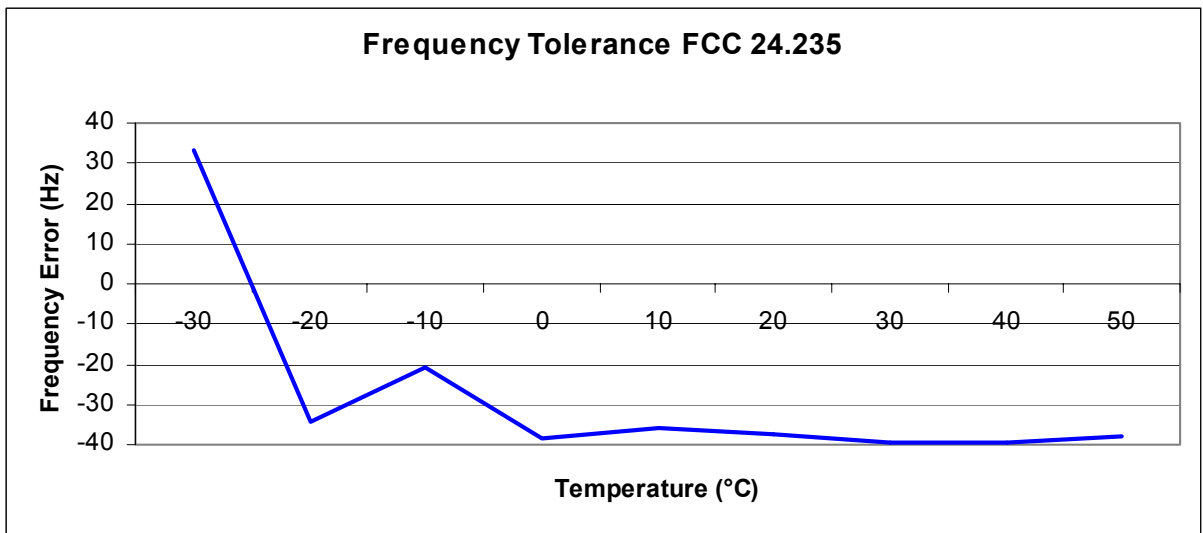
Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

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

**Results: GMSK – TX4**  
**Channel: 810 (1989.8 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1989.80003306	1990.0	33.06	0.19996694	Complied
-20	1989.79996597	1990.0	-34.03	0.20003403	Complied
-10	1989.79997934	1990.0	-20.66	0.20002066	Complied
0	1989.79996158	1990.0	-38.42	0.20003842	Complied
10	1989.79996436	1990.0	-35.64	0.20003564	Complied
20	1989.79996281	1990.0	-37.19	0.20003719	Complied
30	1989.79996029	1990.0	-39.71	0.20003971	Complied
40	1989.79996074	1990.0	-39.26	0.20003926	Complied
50	1989.79996210	1990.0	-37.90	0.20003790	Complied

**Frequency Variation From 1989.8 MHz**



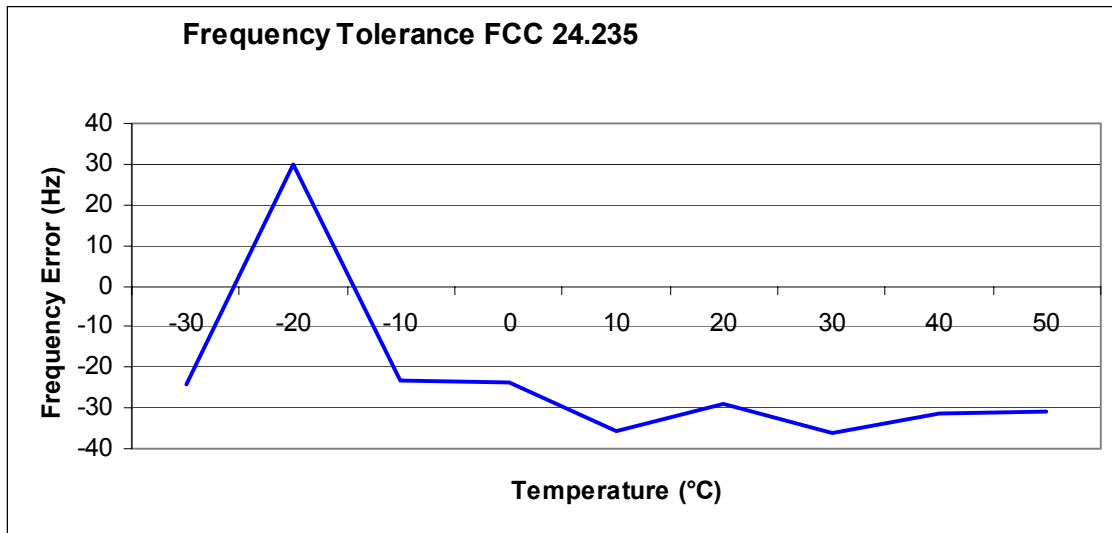
Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

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

**Results: GMSK – TX5**  
**Channel: 512 (1930.2 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1930.19997572	1930.0	-24.28	0.19997572	Complied
-20	1930.20002977	1930.0	29.77	0.20002977	Complied
-10	1930.19997682	1930.0	-23.18	0.19997682	Complied
0	1930.19997637	1930.0	-23.63	0.19997637	Complied
10	1930.19996425	1930.0	-35.75	0.19996425	Complied
20	1930.19997120	1930.0	-28.80	0.19997120	Complied
30	1930.19996407	1930.0	-35.93	0.19996407	Complied
40	1930.19996868	1930.0	-31.32	0.19996868	Complied
50	1930.19996907	1930.0	-30.93	0.19996907	Complied

**Frequency Variation From 1930.2 MHz**





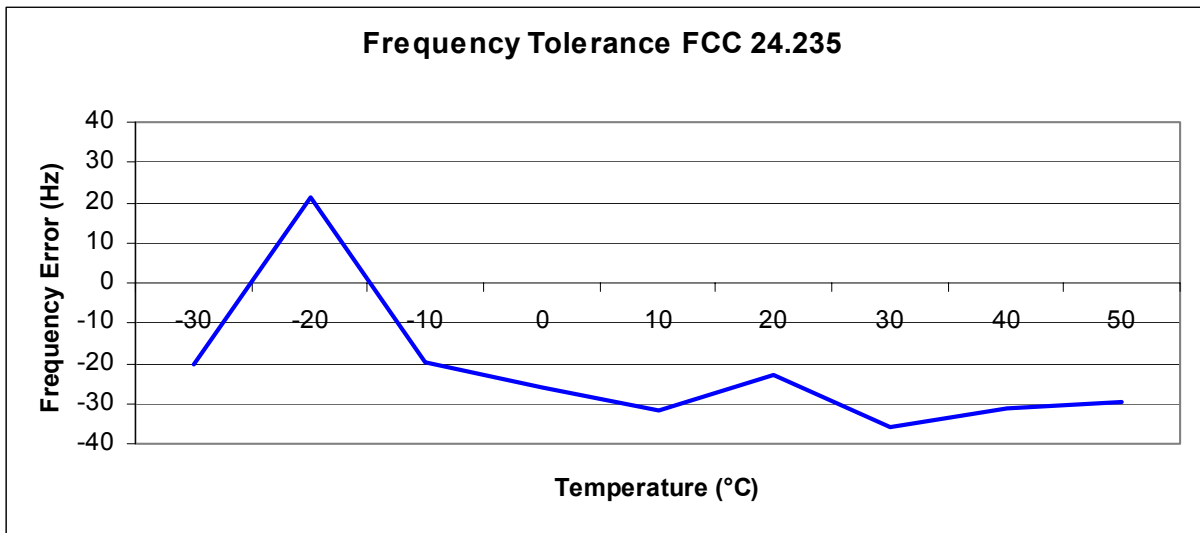
Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

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

**Results: GMSK – TX5**  
**Channel: 810 (1989.8 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1989.79997953	1990.0	-20.47	0.20002047	Complied
-20	1989.80002111	1990.0	21.11	0.19997889	Complied
-10	1989.79998018	1990.0	-19.82	0.20001982	Complied
0	1989.79997378	1990.0	-26.22	0.20002622	Complied
10	1989.79996817	1990.0	-31.83	0.20003183	Complied
20	1989.79997721	1990.0	-22.79	0.20002279	Complied
30	1989.79996397	1990.0	-36.03	0.20003603	Complied
40	1989.79996868	1990.0	-31.32	0.20003132	Complied
50	1989.79997023	1990.0	-29.77	0.20002977	Complied

**Frequency Variation From 1989.8 MHz**



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **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 9 of this report.

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

---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

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

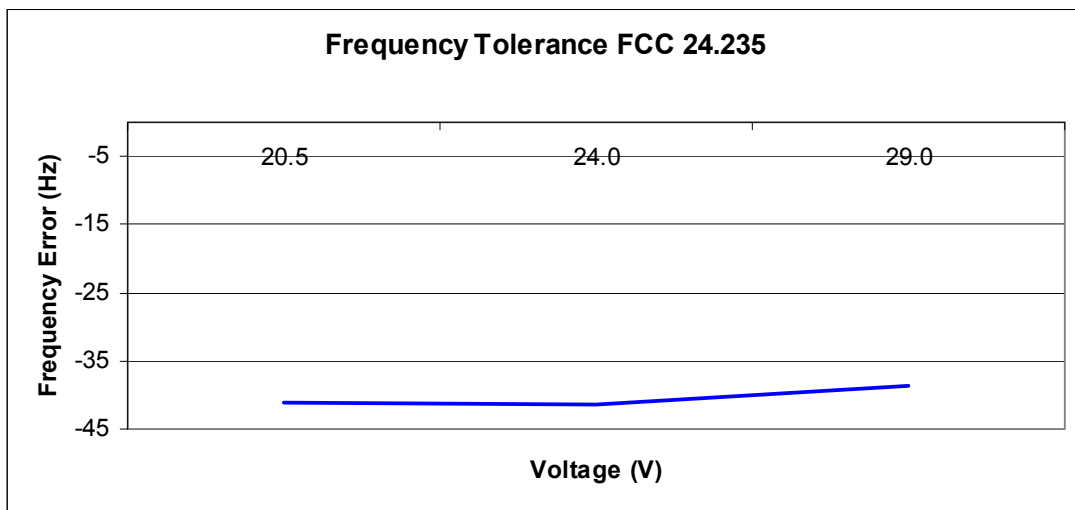
**Without hybrid:**

**Results: GMSK – TX4**

**Channel: 512 (1930.2 MHz)**

Supply Voltage (Vdc)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
20.5	1930.19995900	1930.0	-41.00	0.19995900	Complied
24.0	1930.19995854	1930.0	-41.46	0.19995854	Complied
29.0	1930.19996139	1930.0	-38.61	0.19996139	Complied

**Frequency Variation From 1930.2 MHz**



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

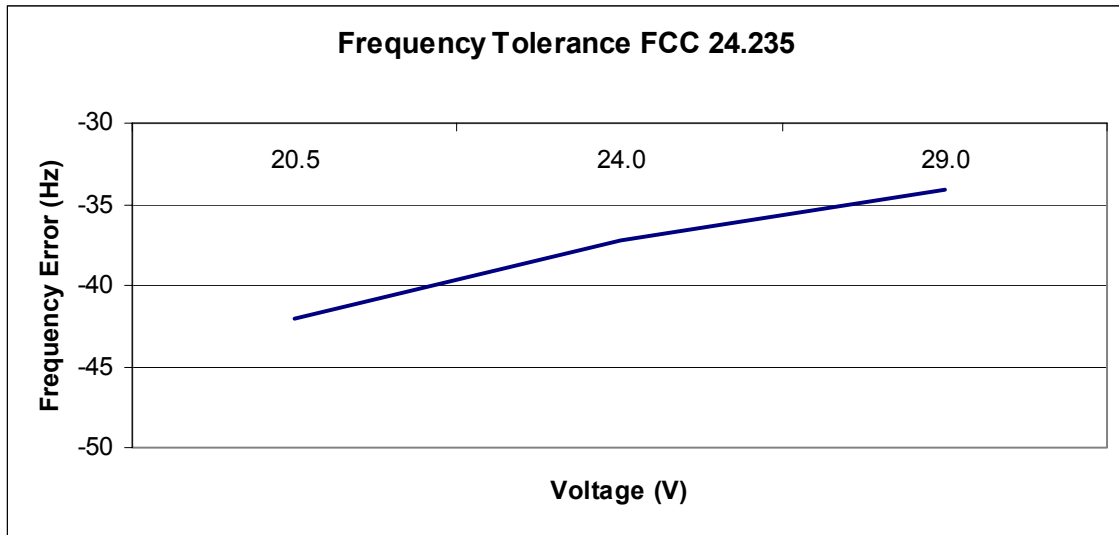
---

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

**Results: GMSK – TX4**  
**Channel: 810 (1989.8 MHz)**

Supply Voltage (Vdc)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
20.5	1989.79995796	1990.0	-42.04	0.20004204	Complied
24.0	1989.79996281	1990.0	-37.19	0.20003719	Complied
29.0	1989.79996591	1990.0	-34.09	0.20003409	Complied

**Frequency Variation From 1989.8 MHz**



Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

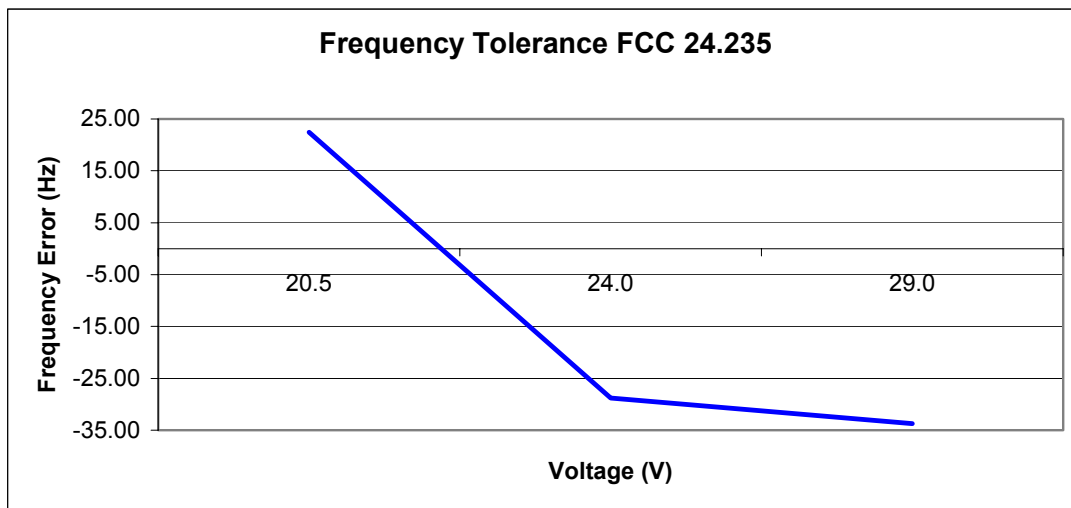
**Transmitter Frequency Stability (Voltage Variation): Section 24.235 (Continued)**

**Results: GMSK – TX5**

**Channel: 512 (1930.2 MHz)**

Supply Voltage (Vdc)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
20.5	1930.20002247	1930.0	22.47	0.20002247	Complied
24.0	1930.19997120	1930.0	-28.80	0.19997120	Complied
29.0	1930.19996629	1930.0	-33.71	0.19996629	Complied

**Frequency Variation From 1930.2 MHz**



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

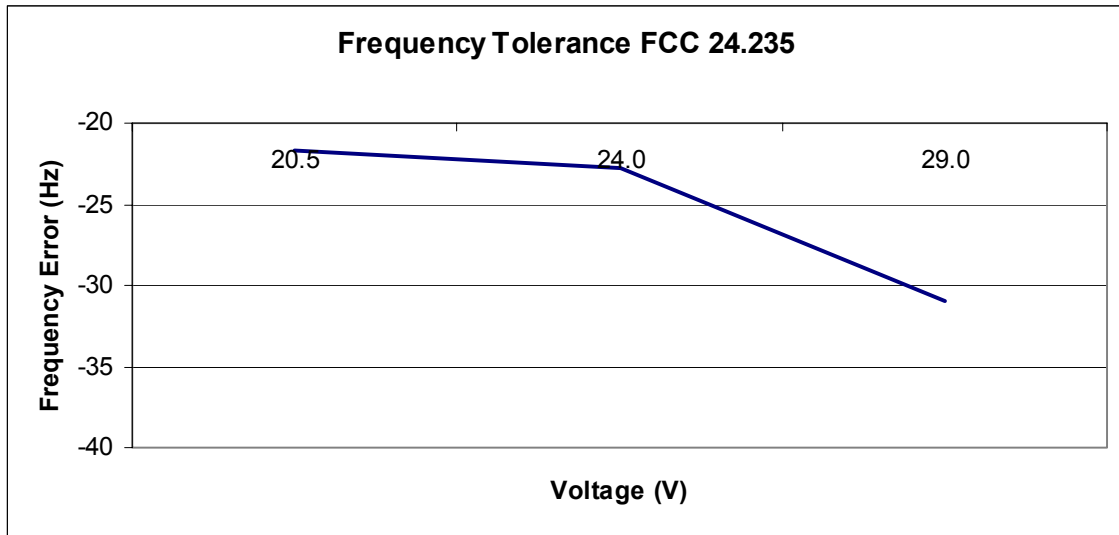
---

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

**Results: GMSK – TX5**  
**Channel: 810 (1989.8 MHz)**

Supply Voltage (Vdc)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
20.5	1989.79997837	1990.0	-21.63	0.20002163	Complied
24.0	1989.79997721	1990.0	-22.79	0.20002279	Complied
29.0	1989.79996907	1990.0	-30.93	0.20003093	Complied

**Frequency Variation From 1989.8 MHz**



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **7.6. Transmitter Occupied Bandwidth: Section 2.1049(i)**

7.6.1. The EUT was configured as for Occupied Bandwidth measurements as described in Section 9 of this report.

7.6.2. Tests were performed to identify the maximum bandwidth occupied by the fundamental frequency of the EUT.

#### **Without hybrid:**

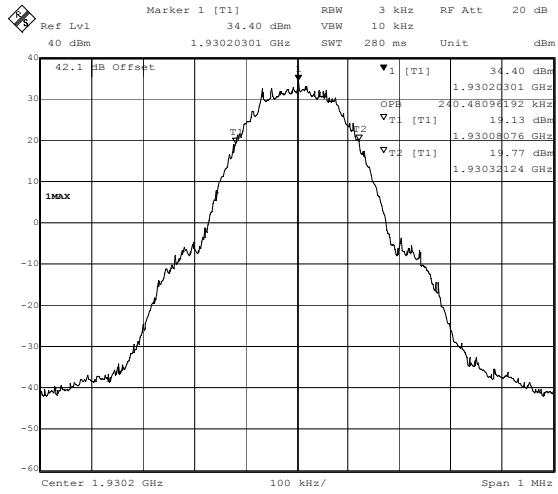
#### **Results: GMSK – TX4 and TX5**

<b>TX</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Resolution Bandwidth (kHz)</b>	<b>Video Bandwidth (kHz)</b>	<b>Occupied Bandwidth (kHz)</b>
TX4	512	1930.20301	3	10	240.481
TX4	513	1930.41703	3	10	240.481
TX4	809	1989.62906	3	10	240.481
TX4	810	1989.80301	3	10	240.481
TX5	512	1930.22104	3	10	240.481
TX5	513	1930.41703	3	10	240.481
TX5	809	1989.56693	3	10	240.481
TX5	810	1989.79299	3	10	240.481

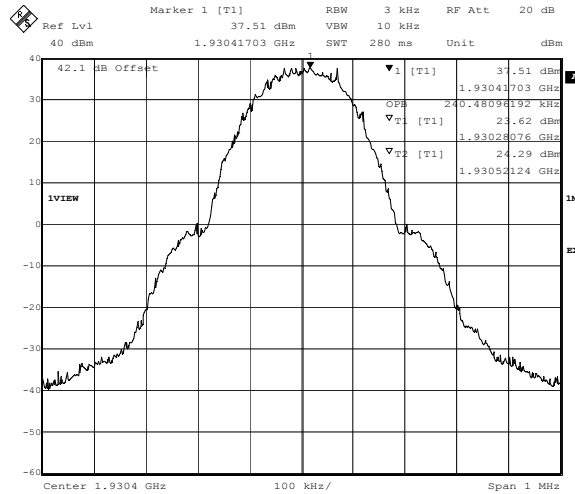
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

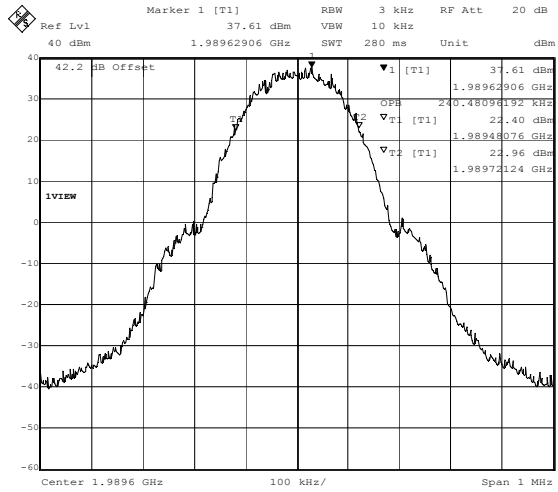
**Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)**



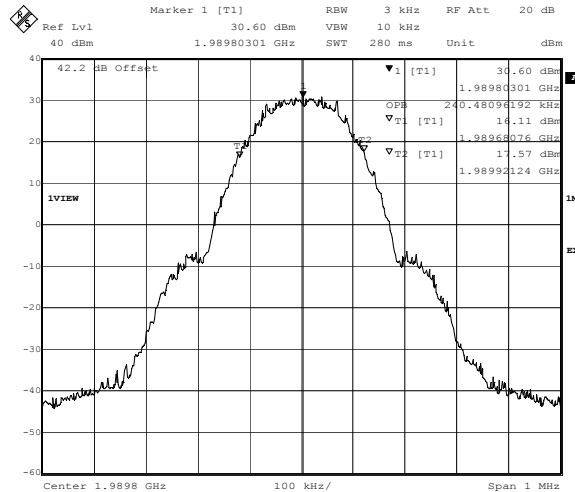
Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch512, +40.8dBm, OBW 99% Occupied Bandwidth, Without hybrid, GMSK TX4, FCC Part 2.1049.  
 Date: 1.APR.2004 14:49:06



Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch513, +44.8dBm, OBW 99% Occupied Bandwidth, Without hybrid, GMSK TX4, FCC Part 2.1049.  
 Date: 31.MAR.2004 16:40:10



Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch809, +44.8dBm, OBW 99% Occupied Bandwidth, Without hybrid, GMSK TX4, FCC Part 2.1049.  
 Date: 31.MAR.2004 16:52:22

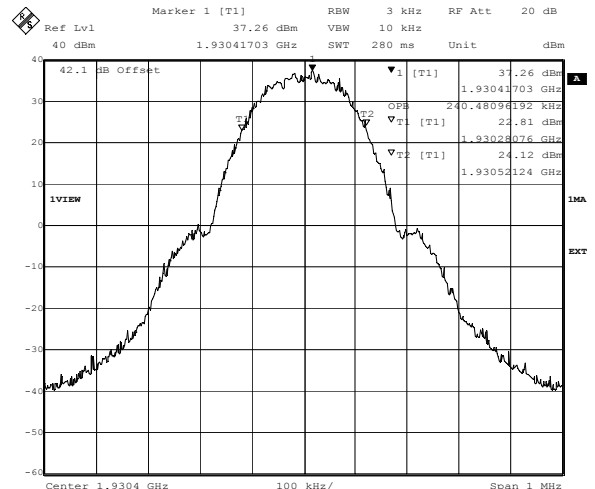
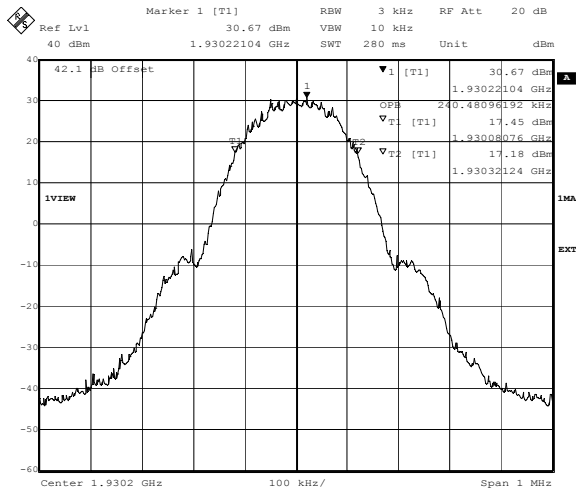


Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch810, +38.8dBm, OBW 99% Occupied Bandwidth, Without hybrid, GMSK TX4, FCC Part 2.1049.  
 Date: 1.APR.2004 15:31:00



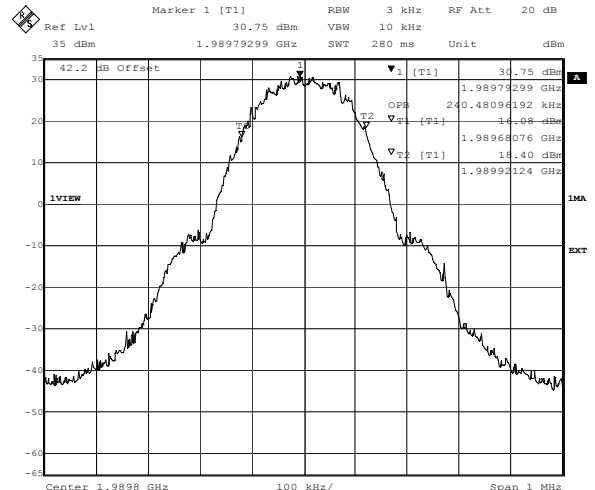
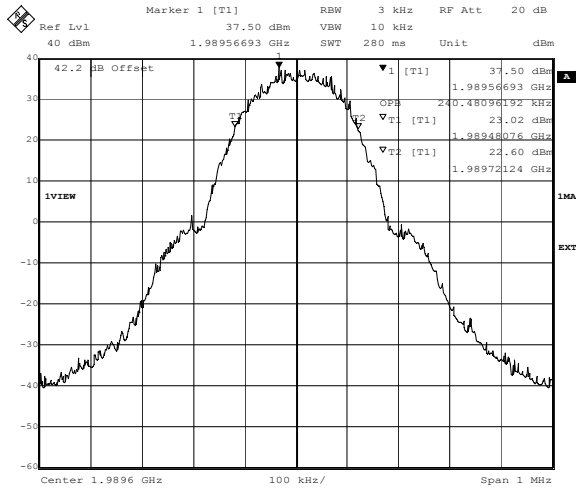
Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

**Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch512. +38.8dBm. OBW 99% Occupied Bandwidth. Without hybrid.  
 GMSK TX5. FCC Part 2.1049.  
 Date: 2.APR.2004 09:07:11

Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513. +44.8dBm. OBW 99% Occupied Bandwidth. Without hybrid.  
 GMSK TX5. FCC Part 2.1049.  
 Date: 31.MAR.2004 16:47:48



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809. +44.8dBm. OBW 99% Occupied Bandwidth. Without hybrid.  
 GMSK TX5. FCC Part 2.1049.  
 Date: 31.MAR.2004 16:49:22

Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch810. +38.8dBm. OBW 99% Occupied Bandwidth. Without hybrid.  
 GMSK TX5. FCC Part 2.1049.  
 Date: 2.APR.2004 09:31:34

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)

With TCC:

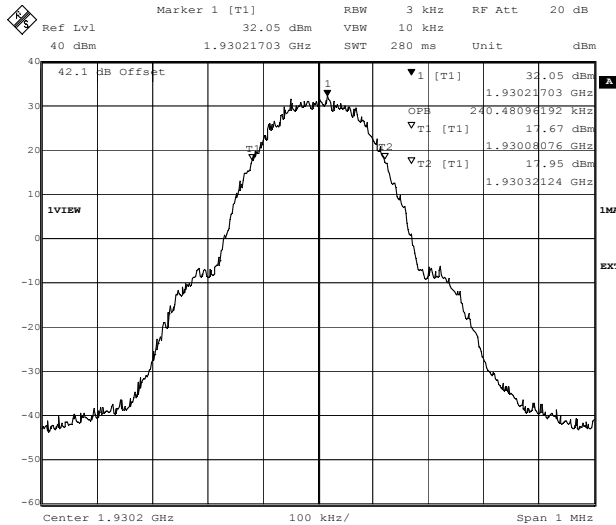
Results: GMSK – TX4 and TX5

TX	Channel	Frequency (MHz)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (kHz)
TX4/TX5	512	1930.21703	3	10	240.481
TX4/TX5	513	1930.38697	3	10	244.489
TX4/TX5	809	1989.57896	3	10	242.485
TX4/TX5	810	1989.81303	3	10	240.481

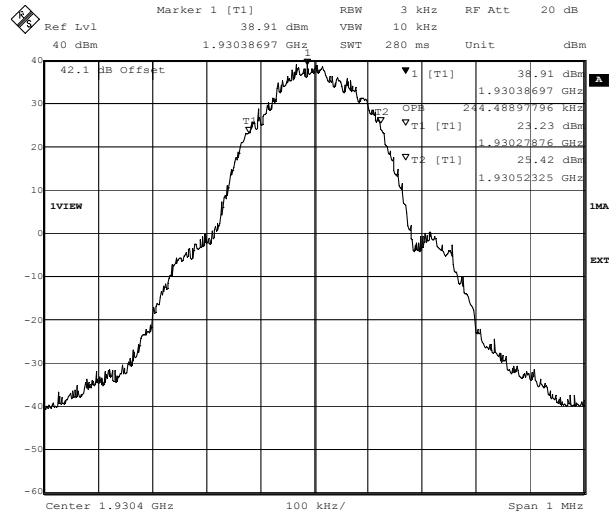
---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

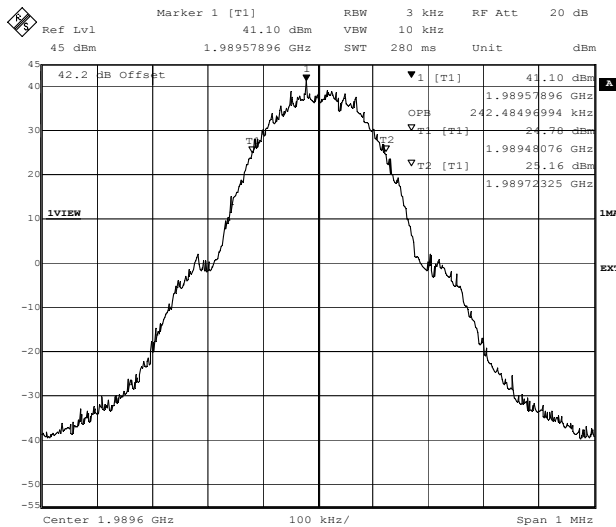
**Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)**



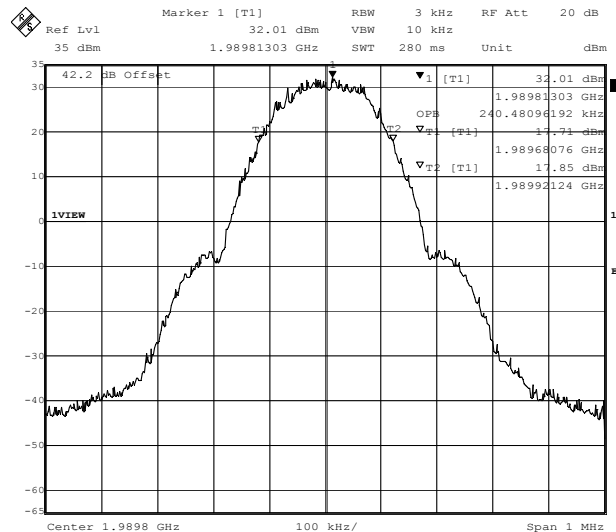
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch512. +41.5dBm. OBW 99% Occupied Bandwidth. With TCC.  
GMSK TX4+TX5. FCC Part 2.1049.  
Date: 1.APR.2004 10:13:53



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513. +47.5dBm. OBW 99% Occupied Bandwidth. With TCC.  
GMSK TX4+TX5. FCC Part 2.1049.  
Date: 1.APR.2004 09:12:50



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809. +47.5dBm. OBW 99% Occupied Bandwidth. With TCC.  
GMSK TX4+TX5. FCC Part 2.1049.  
Date: 1.APR.2004 09:15:13



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch910. +41.5dBm. OBW 99% Occupied Bandwidth. With TCC.  
GMSK TX4+TX5. FCC Part 2.1049.  
Date: 1.APR.2004 11:14:32

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **7.7. Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a)**

7.7.1. The EUT was configured as for conducted emissions testing as described in Section 9 of this report.

7.7.2. Tests were performed to identify the maximum transmitter conducted emission levels.

#### **Without hybrid:**

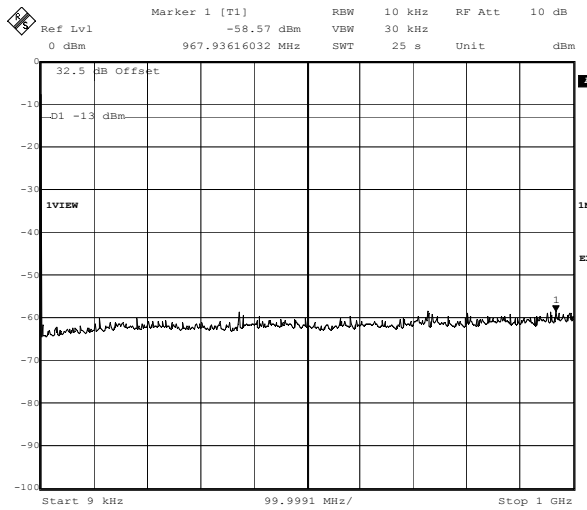
#### **Result: GMSK, TX4=513 and TX5=538**

Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-58.6	-13.0	45.6	Complied
1.0 GHz to 1.92627 GHz	-25.0	-13.0	12.0	Complied
1.99 GHz to 2.5 GHz	-22.7	-13.0	9.7	Complied
2.5 GHz to 10.0 GHz	-32.1	-13.0	19.1	Complied
10.0 GHz to 20.0 GHz	-33.3	-13.0	20.3	Complied

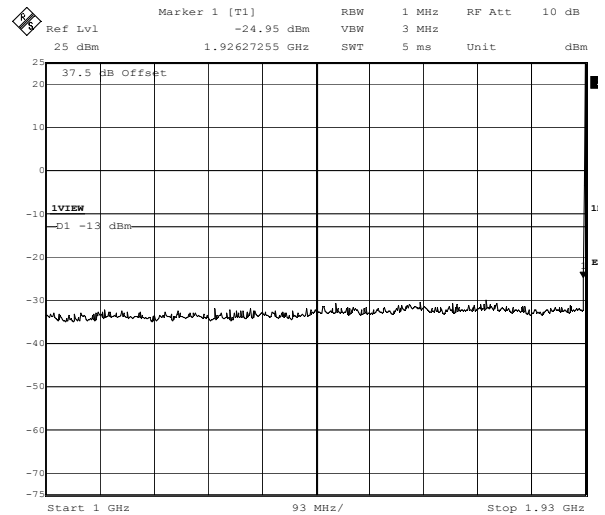
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

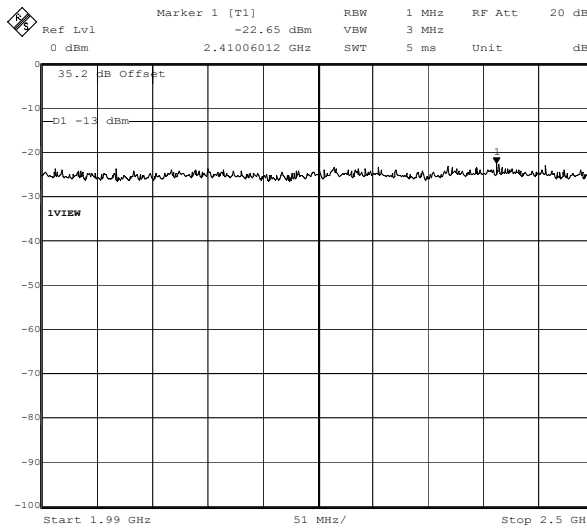
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



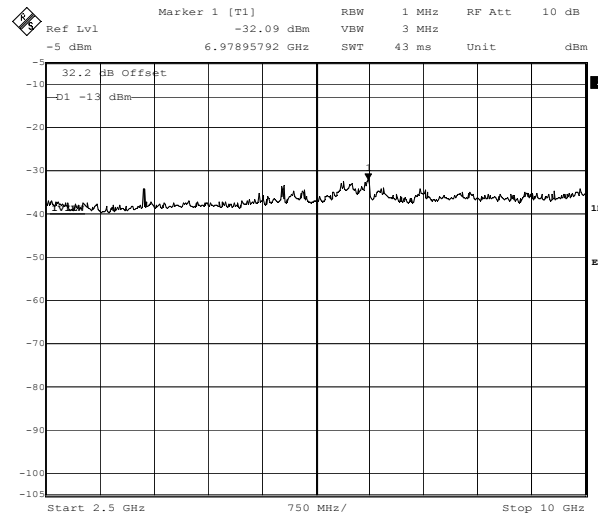
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 9.APR.2004 11:26:18



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 9.APR.2004 10:30:53



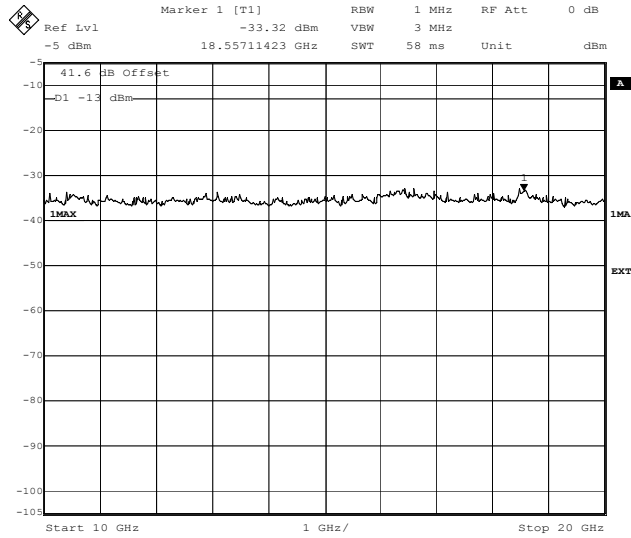
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 8.APR.2004 15:01:27



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 8.APR.2004 14:59:36

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
Date: 9.APR.2004 11:19:35

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

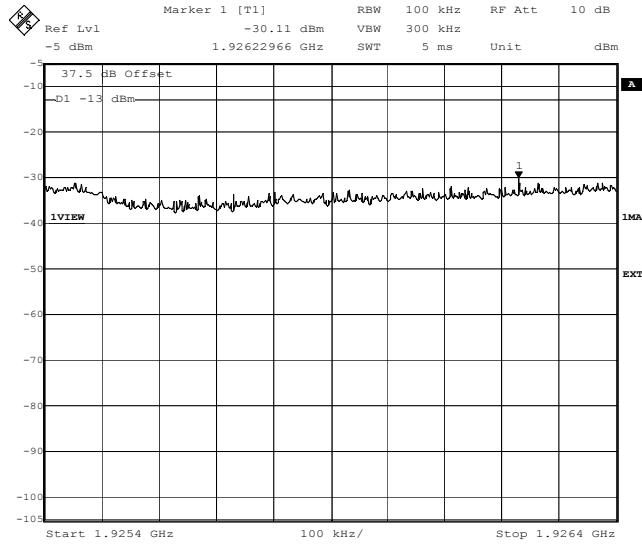
**First Band: 1925.4 to 1926.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	738.816	6	516.846
2	439.329	7	536.577
3	376.600	8	625.660
4	425.959	9	975.298
5	466.250	10	733.301
<b>Total Peak Power:</b>		5834.636 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1925.4 to 1926.4	-22.3	-13.0	9.3	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.9dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
Date: 9.APR.2004 11:07:20



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

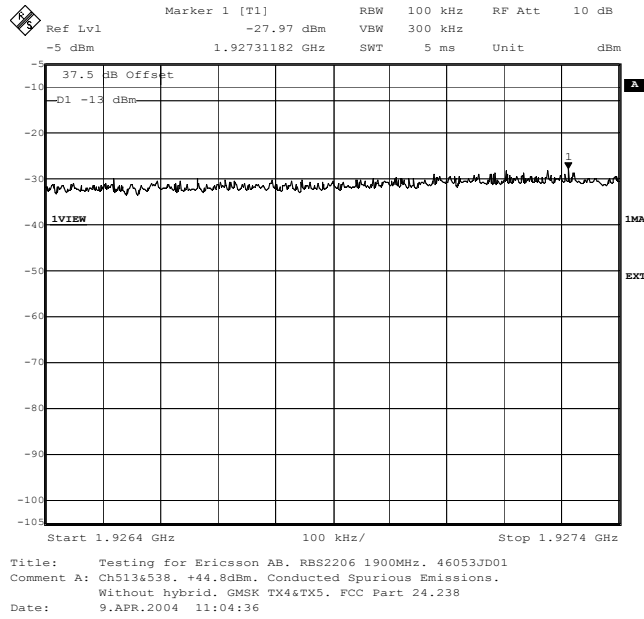
**Second Band: 1926.4 to 1927.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	789.246	6	990.952
2	957.200	7	1200.000
3	955.408	8	1267.000
4	929.373	9	1483.000
5	936.362	10	1595.000
<b>Total Peak Power:</b>		11103.541 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1926.4 to 1927.4	-19.5	-13.0	6.5	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

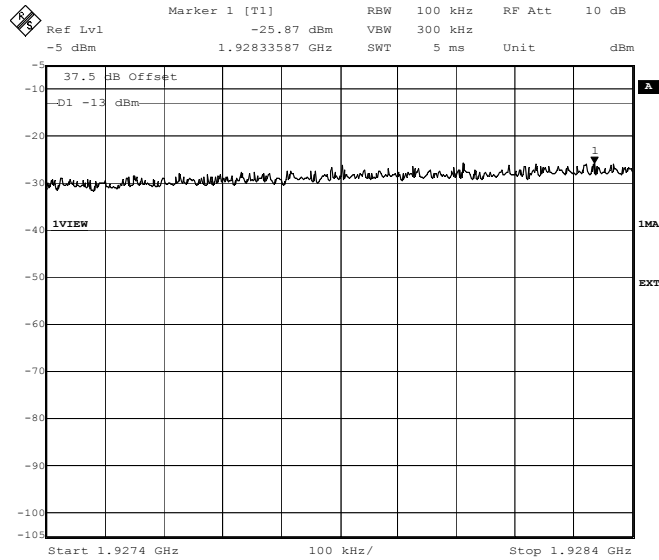
**Third Band: 1927.4 to 1928.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1225.000	6	2253.000
2	1403.000	7	2151.000
3	1552.000	8	2515.000
4	1639.000	9	2439.000
5	2100.000	10	2589.000
<b>Total Peak Power:</b>		19866.000 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1927.4 to 1928.4	-17.0	-13.0	4.0	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
Date: 9.APR.2004 10:37:51

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

4<sup>th</sup> 1 MHz block immediately outside adjacent frequency block.

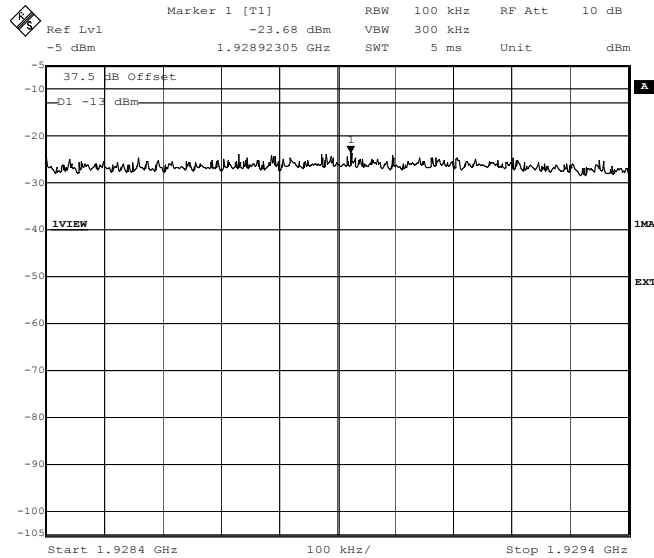
**Fourth Band: 1928.4 to 1929.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	3107.000	6	4286.000
2	3185.000	7	3325.000
3	2983.000	8	3323.000
4	3796.000	9	3210.000
5	3943.000	10	2914.000
<b>Total Peak Power:</b>		34072.000 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.4 to 1929.4	-14.7	-13.0	1.7	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch5136538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
Date: 9.APR.2004 10:35:27

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

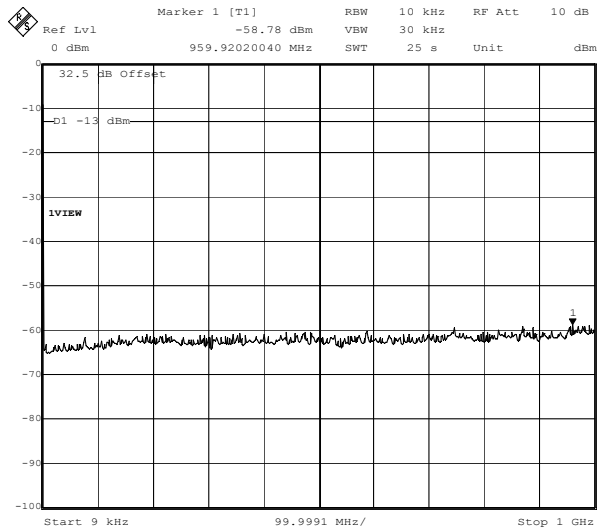
**Result: GMSK, TX4=809 and TX5=784**

Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-58.8	-13.0	45.8	Complied
1.0 GHz to 1.93 GHz	-24.5	-13.0	11.5	Complied
1.9306 GHz to 2.5 GHz	-14.5	-13.0	1.5	Complied
2.5 GHz to 10.0 GHz	-31.6	-13.0	18.6	Complied
10.0 GHz to 20.0 GHz	-33.7	-13.0	20.7	Complied

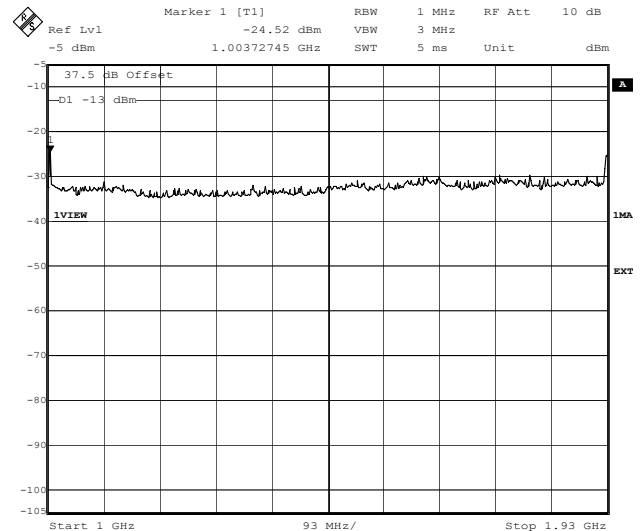
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

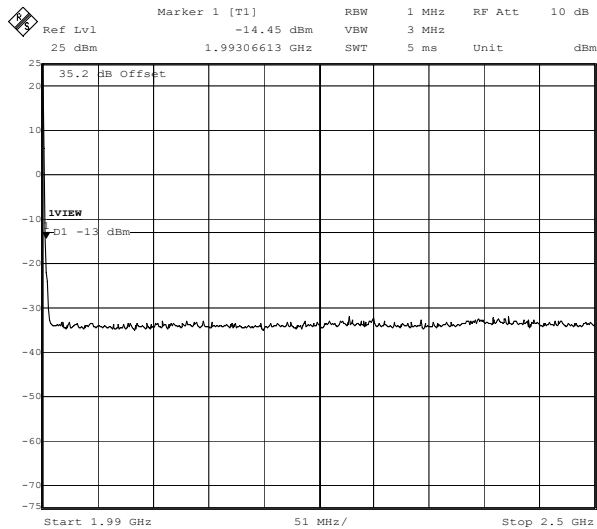
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



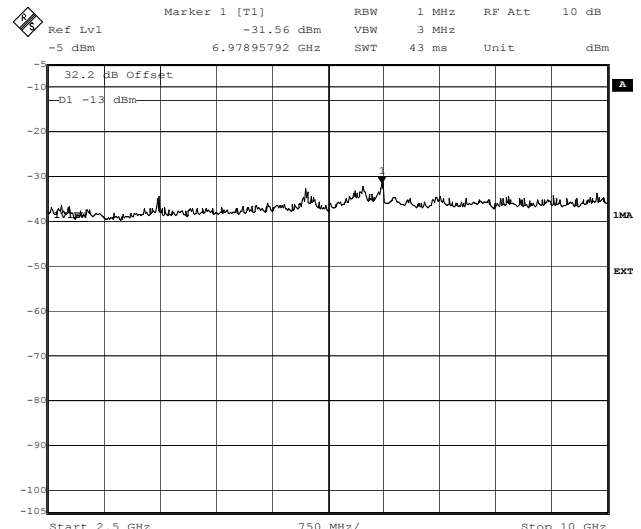
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 9.APR.2004 11:40:27



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 9.APR.2004 11:51:31



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 9.APR.2004 11:57:45

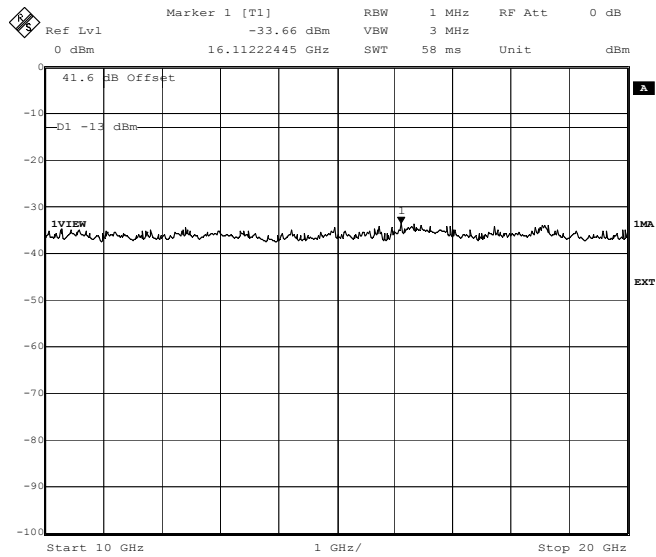


Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
 Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
 Date: 9.APR.2004 11:49:46



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: CR8094784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
Date: 9.APR.2004 11:43:26

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=809 and TX5=784 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

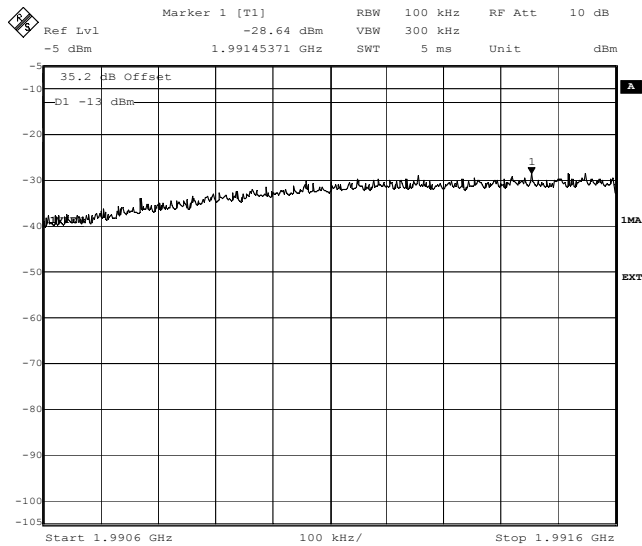
**First Band: 1990.6 to 1991.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	182.584	6	1029.000
2	388.058	7	1215.000
3	475.511	8	1065.000
4	692.906	9	1368.000
5	897.719	10	1334.000
<b>Total Peak Power:</b>		8647.778 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.6 to 1991.6	-20.6	-13.0	7.6	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX46TX5. FCC Part 24.238  
Date: 9.APR.2004 12:00:05

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=809 and TX5=784 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

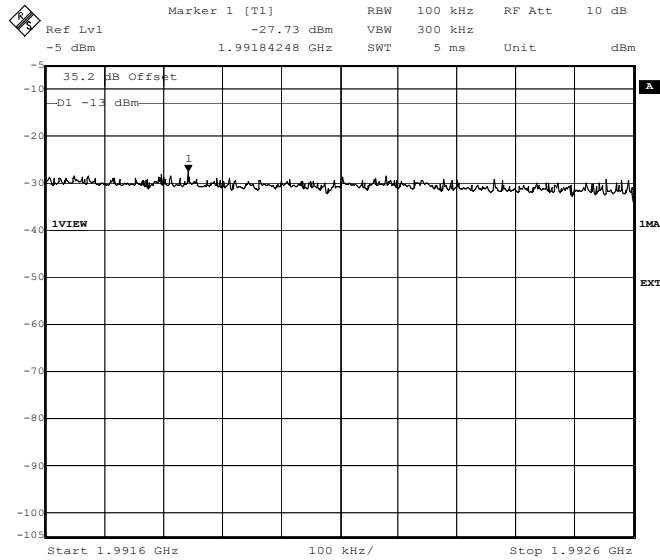
**Second Band: 1991.6 to 1992.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1351.000	6	1347.000
2	1469.000	7	1134.000
3	1688.000	8	1131.000
4	1215.000	9	988.635
5	1130.000	10	1145.000
<b>Total Peak Power:</b>		12598.635 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1991.6 to 1992.6	-19.0	-13.0	6.0	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch8096784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
Date: 9.APR.2004 12:08:34

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=809 and TX5=784 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

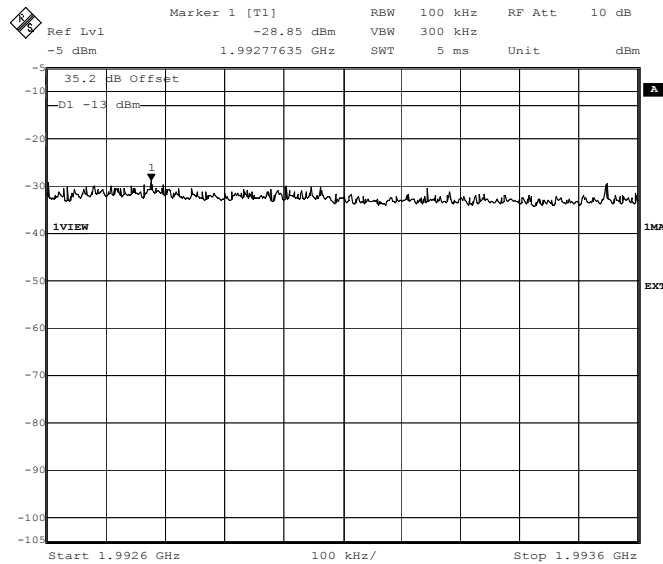
**Third Band: 1992.6 to 1993.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1148.000	6	659.043
2	1303.000	7	841.541
3	878.588	8	641.683
4	809.838	9	619.828
5	958.098	10	1109.000
<b>Total Peak Power:</b>		8968.619 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1992.6 to 1993.6	-20.5	-13.0	7.5	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX4&TX5. FCC Part 24.238  
Date: 9.APR.2004 12:11:09

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Result: GMSK, TX4=538 and TX5=513**

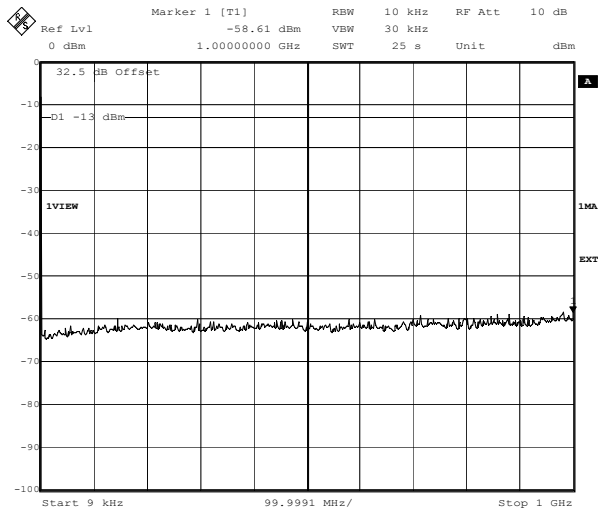
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-58.6	-13.0	45.6	Complied
1.0 GHz to 1.92627 GHz	-20.6	-13.0	7.6	Complied
1.99 GHz to 2.5 GHz	-23.1	-13.0	10.1	Complied
2.5 GHz to 10.0 GHz	-31.6	-13.0	18.6	Complied
10.0 GHz to 20.0 GHz	-32.7	-13.0	19.7	Complied

---

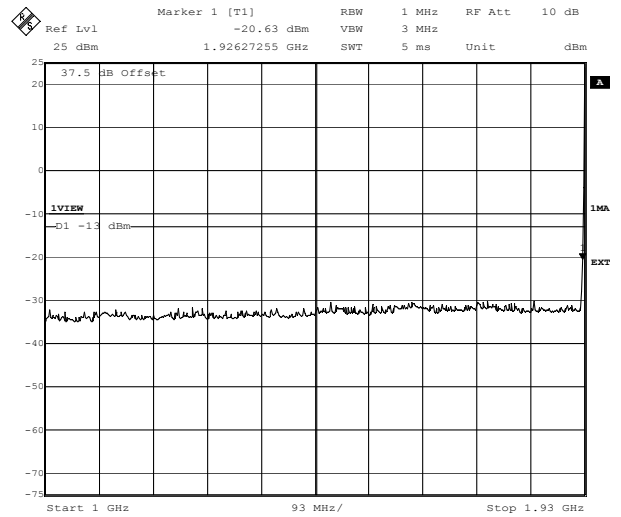


Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

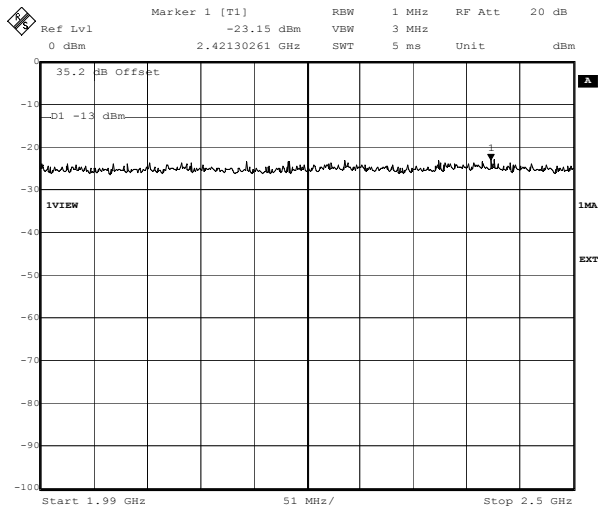
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



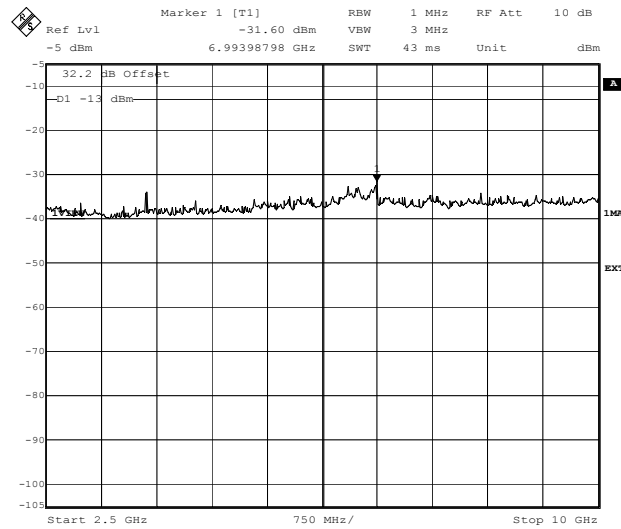
Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch513&538, +44.8dBm, Conducted Spurious Emissions.  
 Without hybrid, GMSK TX5&TX4, FCC Part 24.238  
 Date: 9.APR.2004 13:00:01



Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch513&538, +44.8dBm, Conducted Spurious Emissions.  
 Without hybrid, GMSK TX5&TX4, FCC Part 24.238  
 Date: 9.APR.2004 12:37:51



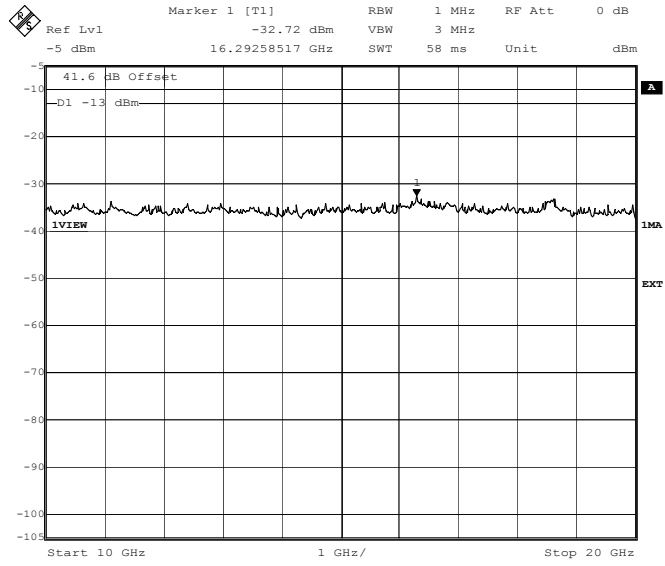
Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch513&538, +44.8dBm, Conducted Spurious Emissions.  
 Without hybrid, GMSK TX5&TX4, FCC Part 24.238  
 Date: 9.APR.2004 12:32:36



Title: Testing for Ericsson AB, RBS2206 1900MHz, 46053JD01  
 Comment A: Ch513&538, +44.8dBm, Conducted Spurious Emissions.  
 Without hybrid, GMSK TX5&TX4, FCC Part 24.238  
 Date: 9.APR.2004 12:35:44

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 9.APR.2004 13:07:47

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=538 and TX5=513 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

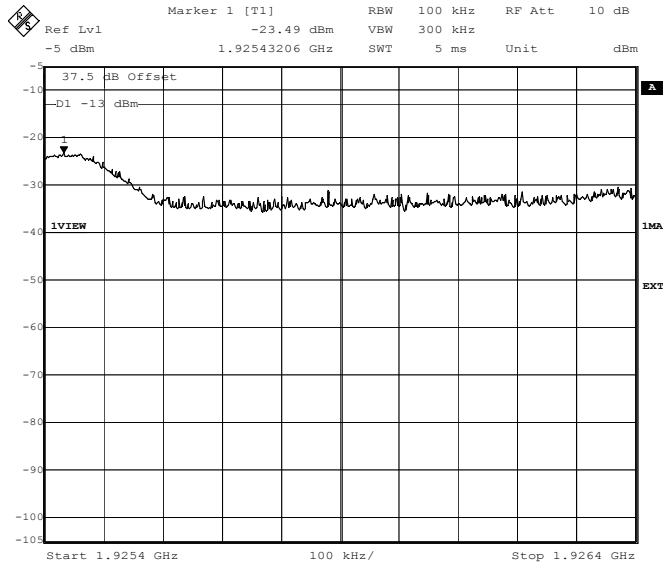
**First Band: 1925.4 to 1926.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	3717.000	6	585.135
2	1939.000	7	609.466
3	515.155	8	602.937
4	708.989	9	743.676
5	502.997	10	868.362
<b>Total Peak Power:</b>		10792.717 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1925.4 to 1926.4	-19.7	-13.0	6.7	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 9.APR.2004 12:54:08

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=538 and TX5=513 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

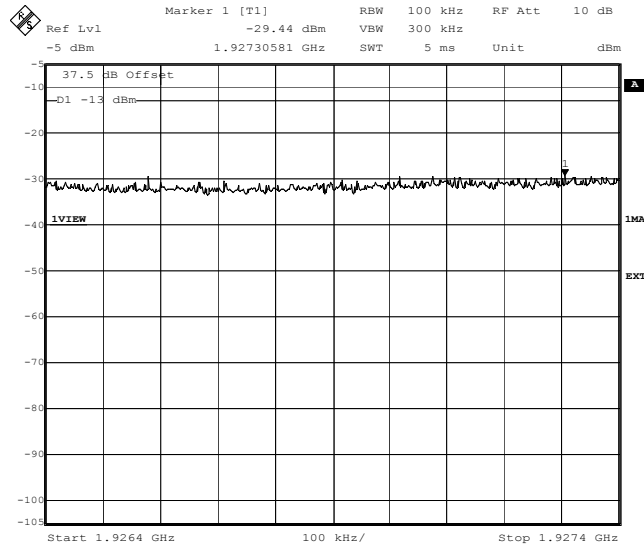
**Second Band: 1926.4 to 1927.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	854.245	6	934.610
2	1077.000	7	1093.000
3	794.437	8	1019.000
4	843.907	9	1023.000
5	818.224	10	1138.000
<b>Total Peak Power:</b>		9595.423 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1926.4 to 1927.4	-20.2	-13.0	7.2	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 9.APR.2004 12:50:00

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=538 and TX5=513 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

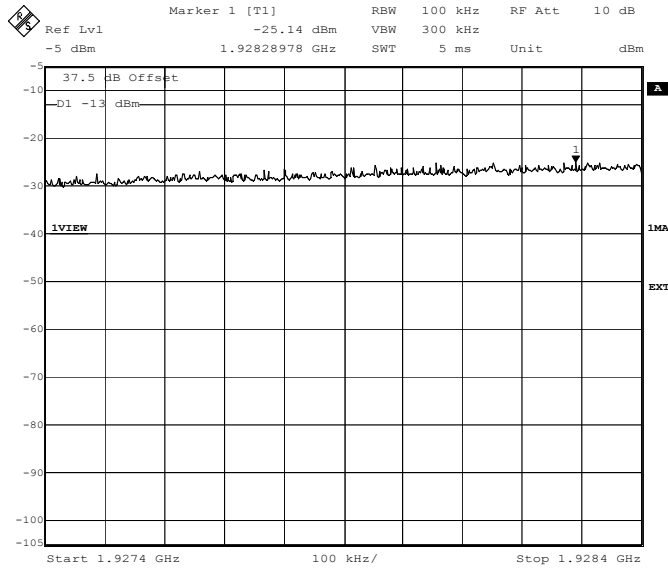
**Third Band: 1927.4 to 1928.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1714.000	6	2622.000
2	1497.000	7	2896.000
3	1978.000	8	2984.000
4	2053.000	9	3060.000
5	2099.000	10	2915.000
<b>Total Peak Power:</b>		23818.000 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1927.4 to 1928.4	-16.2	-13.0	3.2	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 9.APR.2004 12:46:16



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=538 and TX5=513 (Continued)**

4<sup>th</sup> 1 MHz block immediately outside adjacent frequency block.

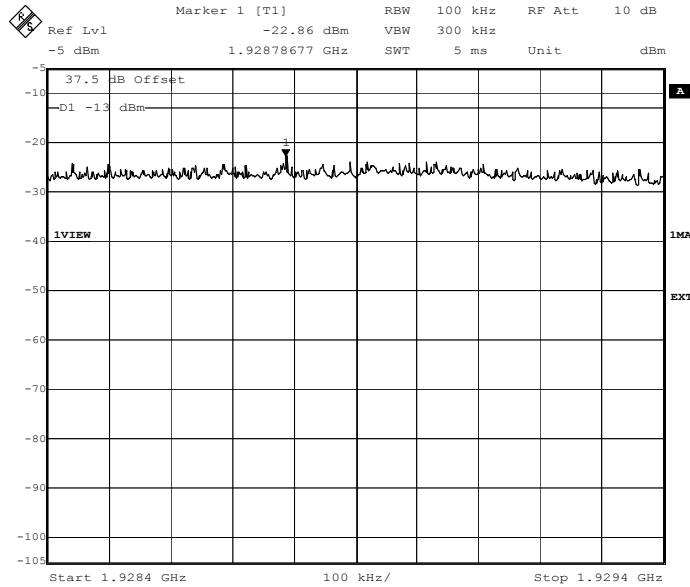
**Fourth Band: 1928.4 to 1929.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	3631.000	6	3677.000
2	2882.000	7	3941.000
3	3457.000	8	3400.000
4	5173.000	9	2720.000
5	3805.000	10	2795.000
<b>Total Peak Power:</b>		35481.000 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.4 to 1929.4	-14.5	-13.0	1.5	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 9.APR.2004 12:39:39

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Result: GMSK, TX4=784 and TX5=809**

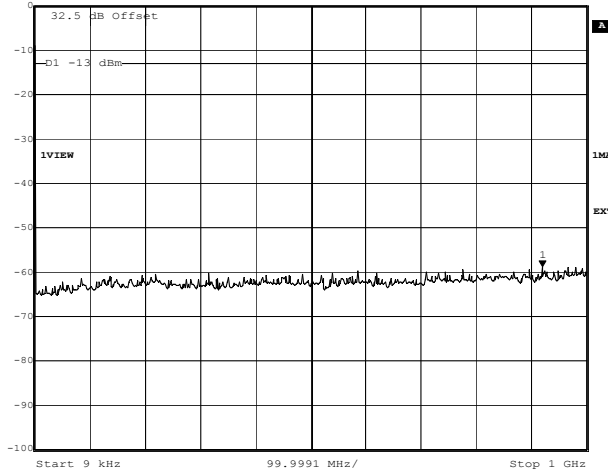
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-58.7	-13.0	45.7	Complied
1.0 GHz to 1.93 GHz	-23.5	-13.0	10.5	Complied
1.99408 GHz to 2.5 GHz	-24.8	-13.0	11.8	Complied
2.5 GHz to 10.0 GHz	-32.5	-13.0	19.5	Complied
10.0 GHz to 20.0 GHz	-32.8	-13.0	19.8	Complied

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

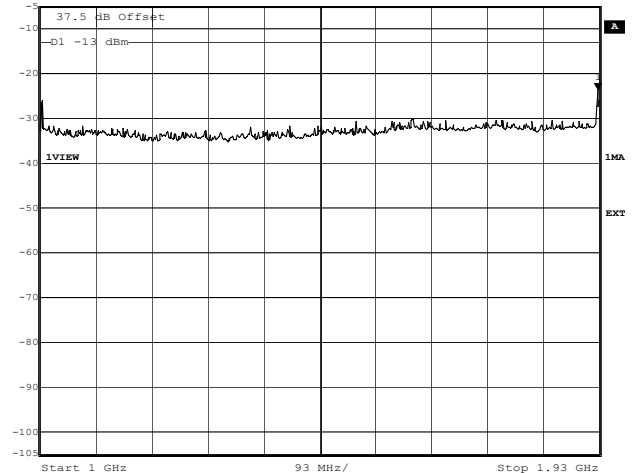
Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)

Marker 1 [T1] RBW 10 kHz RF Att 10 dB  
Ref Lvl -59.77 dBm VBW 30 kHz  
0 dBm 919.84040080 MHz SWT 25 s Unit dBm



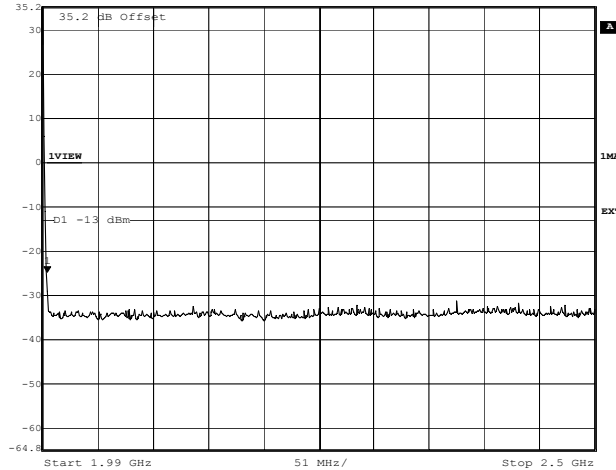
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 9.APR.2004 13:04:04

Marker 1 [T1] RBW 1 MHz RF Att 10 dB  
Ref Lvl -23.56 dBm VBW 3 MHz  
-5 dBm 1.92813627 GHz SWT 5 ms Unit dBm



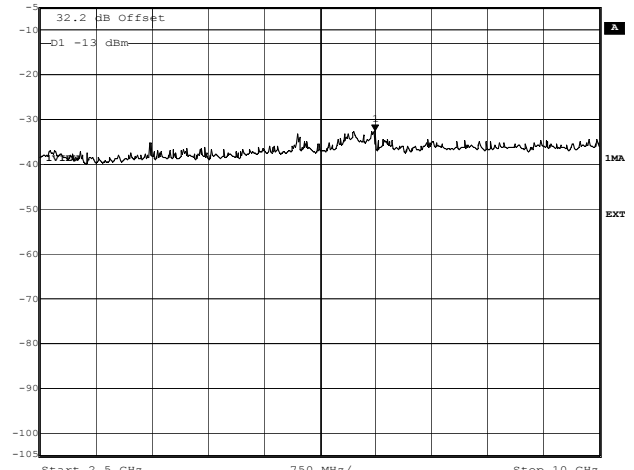
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 13.APR.2004 08:09:20

Marker 1 [T1] RBW 1 MHz RF Att 10 dB  
Ref Lvl -24.83 dBm VBW 3 MHz  
35.2 dBm 1.99408818 GHz SWT 5 ms Unit dBm



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 13.APR.2004 08:13:59

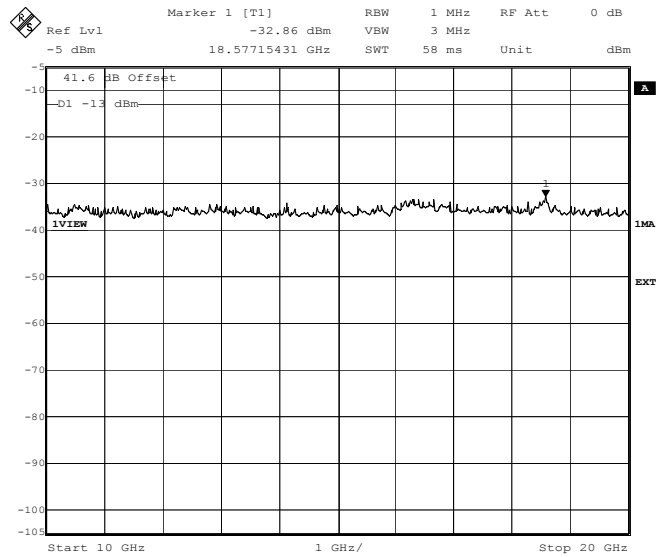
Marker 1 [T1] RBW 1 MHz RF Att 10 dB  
Ref Lvl -32.51 dBm VBW 3 MHz  
-5 dBm 6.99398798 GHz SWT 43 ms Unit dBm



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 13.APR.2004 08:07:45

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: CR8094784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 9.APR.2004 13:06:05

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=784 and TX5=809 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

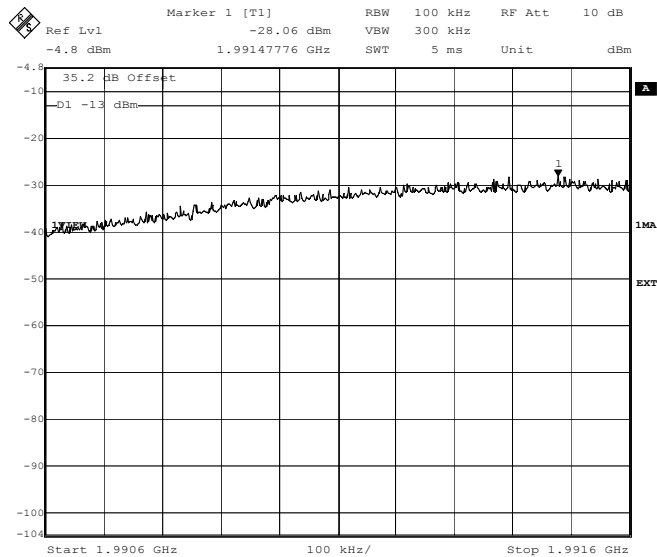
**First Band: 1990.6 to 1991.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	158.012	6	853.183
2	254.403	7	1083.000
3	408.445	8	1469.000
4	582.494	9	1565.000
5	749.739	10	1294.000
<b>Total Peak Power:</b>		8417.276 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.6 to 1991.6	-20.7	-13.0	7.7	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch8094784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 13.APR.2004 08:15:21

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=784 and TX5=809 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

**Second Band: 1991.6 to 1992.6 MHz**

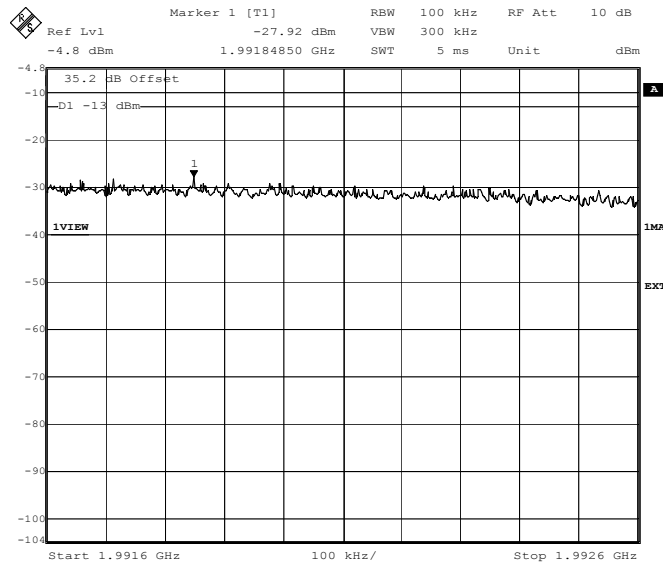
100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1390	6	1032
2	1400	7	1020
3	1616	8	897.862
4	1173	9	825.668
5	1011	10	796.426
<b>Total Peak Power:</b>		11161.956 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1991.6 to 1992.6	-19.5	-13.0	6.5	Complied



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 13.APR.2004 08:17:37

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=784 and TX5=809 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

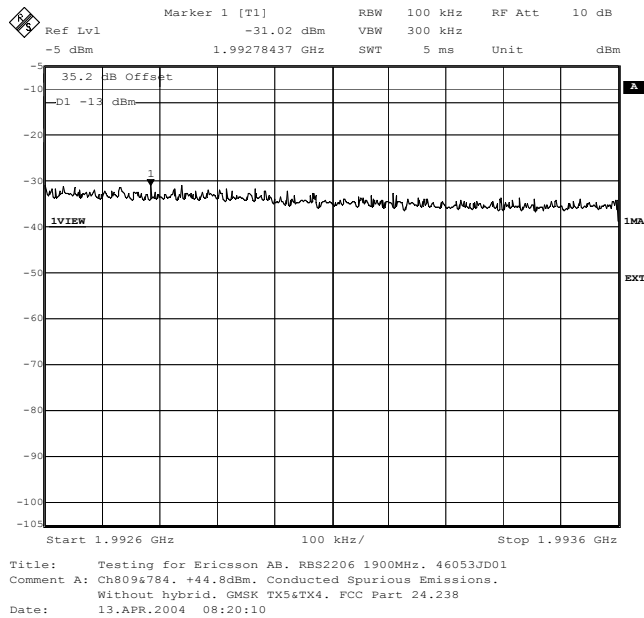
**Third Band: 1992.6 to 1993.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	722.395	6	448.686
2	790.356	7	511.550
3	782.988	8	402.683
4	643.790	9	411.066
5	575.084	10	396.508
<b>Total Peak Power:</b>		5685.106 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1992.6 to 1993.6	-22.5	-13.0	9.5	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=784 and TX5=809 (Continued)**

4<sup>th</sup> 1 MHz block immediately outside adjacent frequency block.

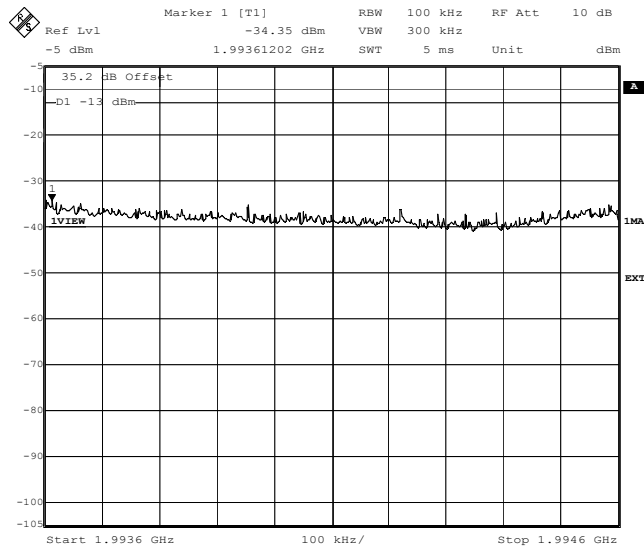
**Fourth Band: 1993.6 to 1994.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	367.369	6	161.351
2	243.067	7	229.462
3	231.730	8	192.777
4	290.816	9	212.798
5	203.539	10	282.097
<b>Total Peak Power:</b>		2415.006 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1993.6 to 1994.6	-26.2	-13.0	13.2	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +44.8dBm. Conducted Spurious Emissions.  
Without hybrid. GMSK TX5&TX4. FCC Part 24.238  
Date: 13.APR.2004 08:23:06

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**With hybrid:**

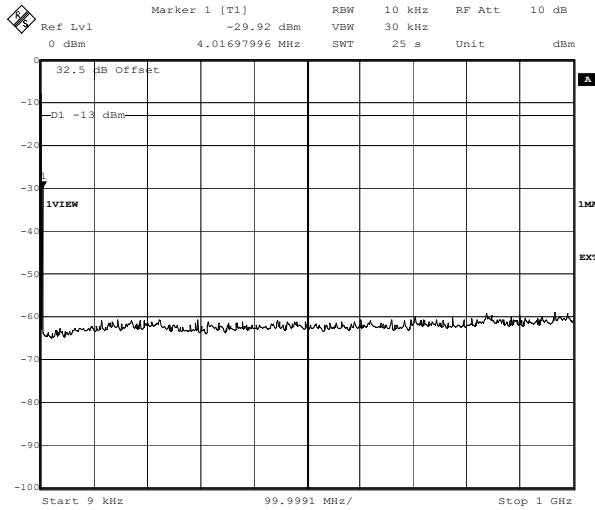
**Result: GMSK, TX4=513 and TX5=538**

Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-29.9	-13.0	16.9	Complied
1.0 GHz to 1.92627 GHz	-22.3	-13.0	9.3	Complied
1.99 GHz to 2.5 GHz	-23.1	-13.0	10.1	Complied
2.5 GHz to 10.0 GHz	-31.6	-13.0	18.6	Complied
10.0 GHz to 20.0 GHz	-33.5	-13.0	20.5	Complied

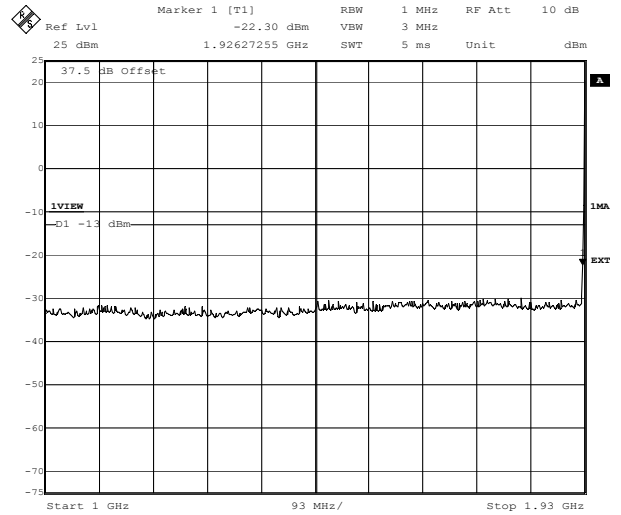
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

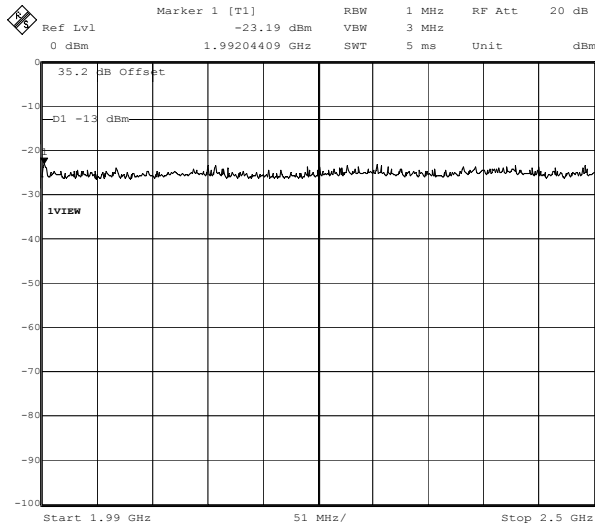
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



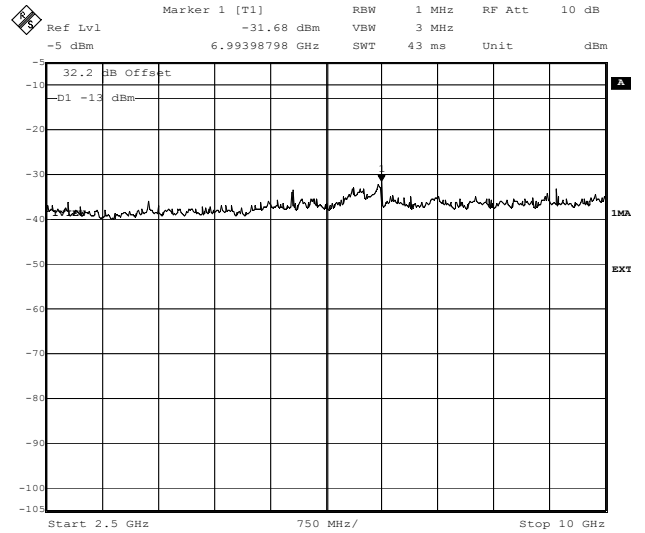
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 10:12:26



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 10:17:46



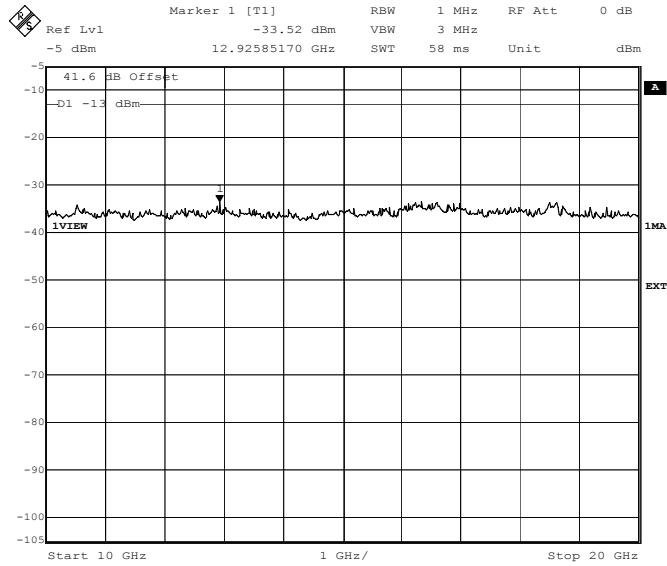
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 10:05:49



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 10:04:23

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 10:09:04



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

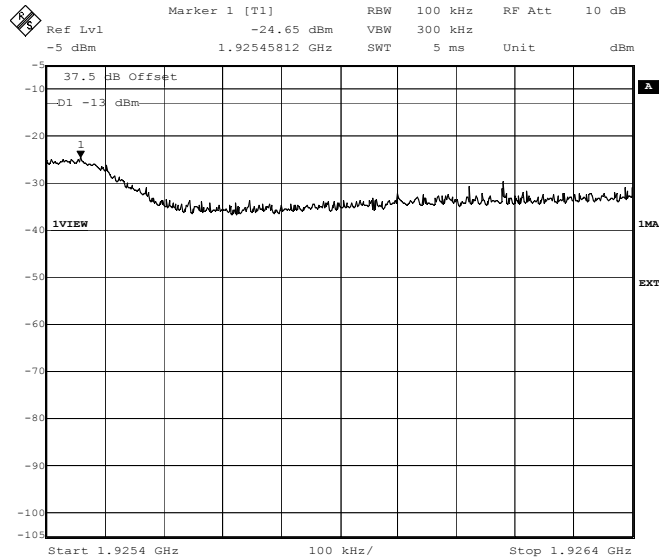
**First Band: 1925.4 to 1926.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	3431.000	6	452.484
2	2254.000	7	531.077
3	417.076	8	1006.000
4	411.644	9	631.251
5	395.580	10	764.509
<b>Total Peak Power:</b>		10294.621 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1925.4 to 1926.4	-19.9	-13.0	6.9	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 10:30:06

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

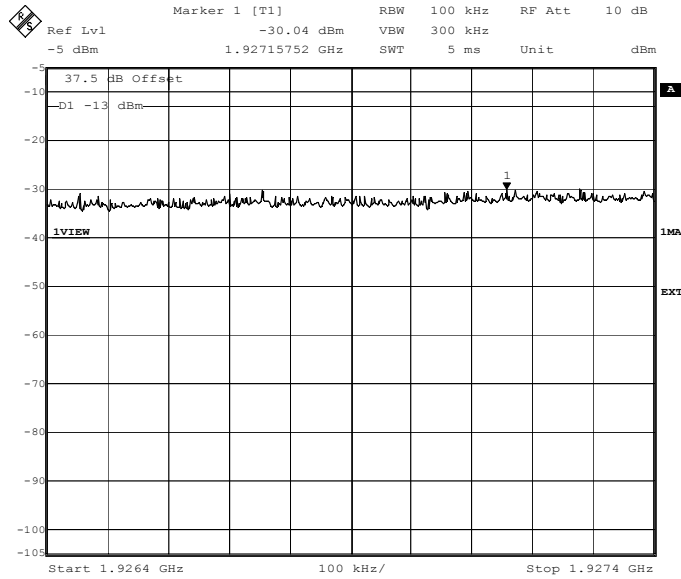
**Second Band: 1926.4 to 1927.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	790.356	6	683.559
2	598.716	7	852.247
3	774.237	8	990.952
4	928.503	9	972.562
5	676.870	10	879.823
<b>Total Peak Power:</b>		8147.825 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1926.4 to 1927.4	-20.9	-13.0	7.9	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 10:27:29

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

**Third Band: 1927.4 to 1928.4 MHz**

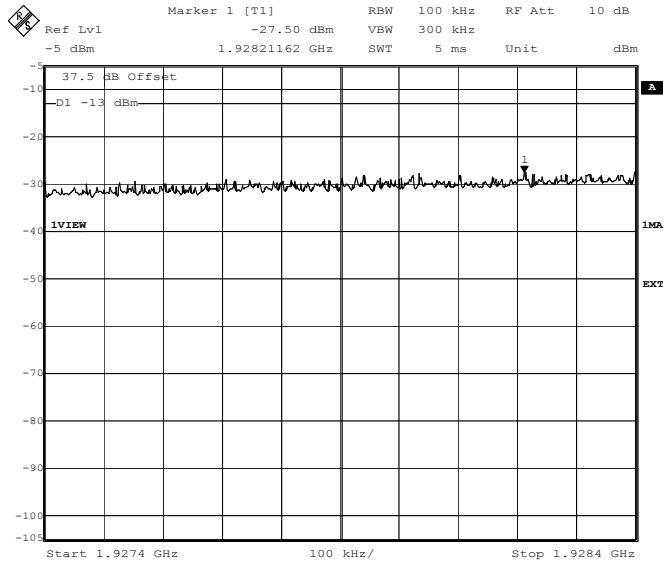
100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	992.809	6	1483.000
2	1090.000	7	1592.000
3	1008.000	8	1480.000
4	1215.000	9	1777.000
5	1201.000	10	1754.000
<b>Total Peak Power:</b>		12391.809 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1927.4 to 1928.4	-19.1	-13.0	6.1	Complied

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 10:21:27

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=513 and TX5=538 (Continued)**

4<sup>th</sup> 1 MHz block immediately outside adjacent frequency block.

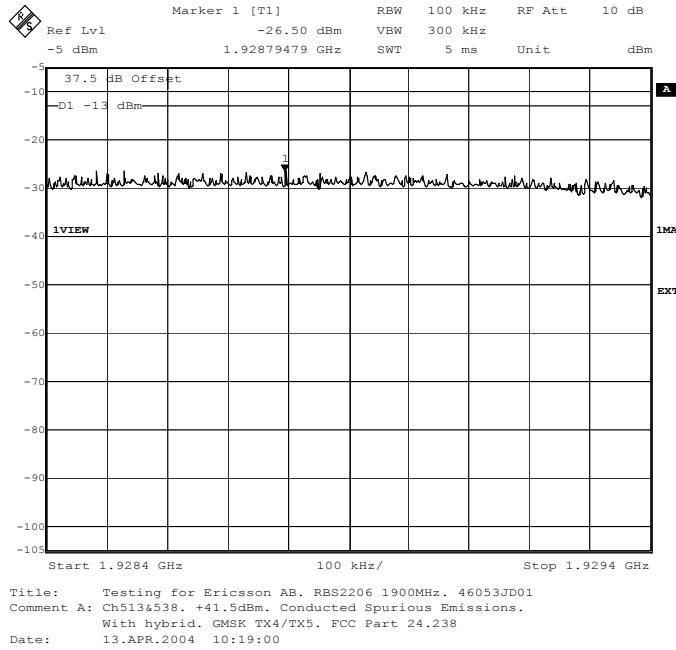
**Fourth Band: 1928.4 to 1929.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	2177.000	6	2087.000
2	2181.000	7	1799.000
3	1974.000	8	1699.000
4	2238.000	9	1523.000
5	1927.000	10	1366.000
<b>Total Peak Power:</b>		18971.000 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.4 to 1929.4	-17.2	-13.0	4.2	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**





Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

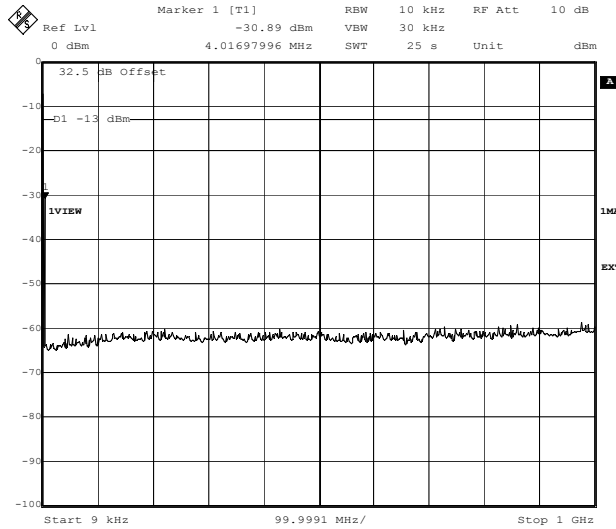
**Result: GMSK, TX4=809 and TX5=784**

Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-30.8	-13.0	17.8	Complied
1.0 GHz to 1.93 GHz	-20.8	-13.0	7.8	Complied
1.99306 GHz to 2.5 GHz	-16.8	-13.0	3.8	Complied
2.5 GHz to 10.0 GHz	-31.6	-13.0	18.6	Complied
10.0 GHz to 20.0 GHz	-33.0	-13.0	20.0	Complied

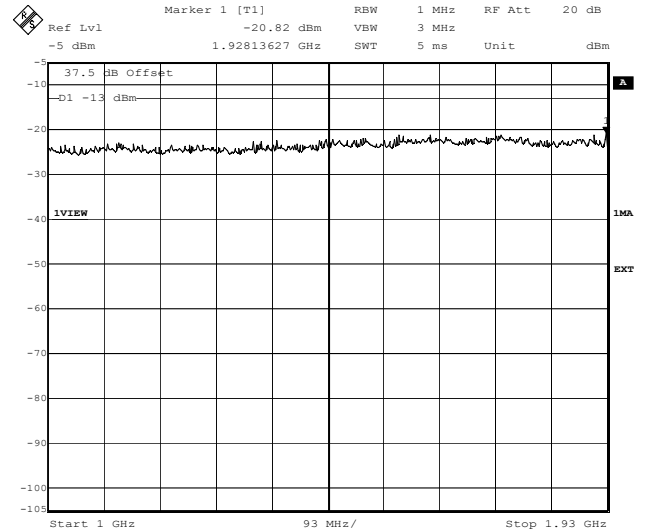
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

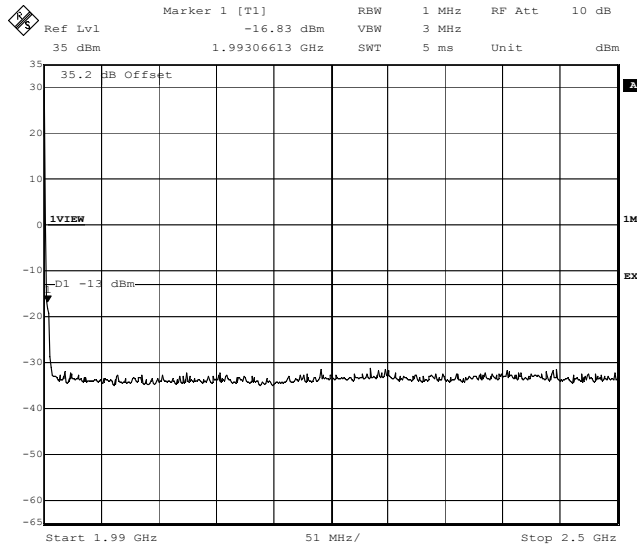
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



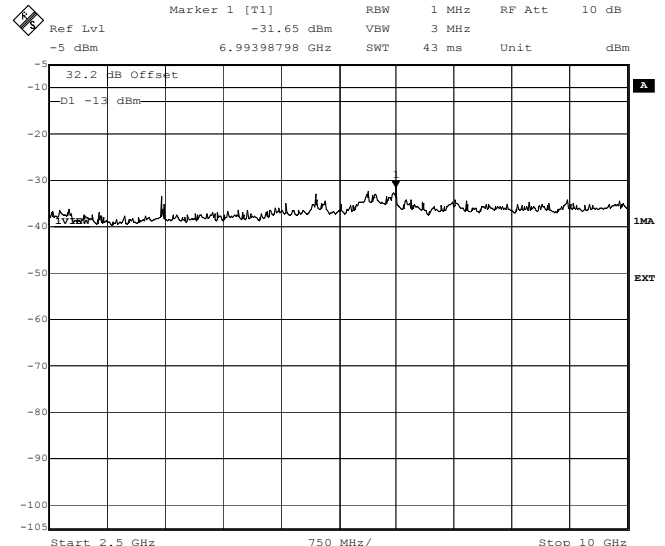
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch8096784. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 13:26:20



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch8096784. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 12:10:45



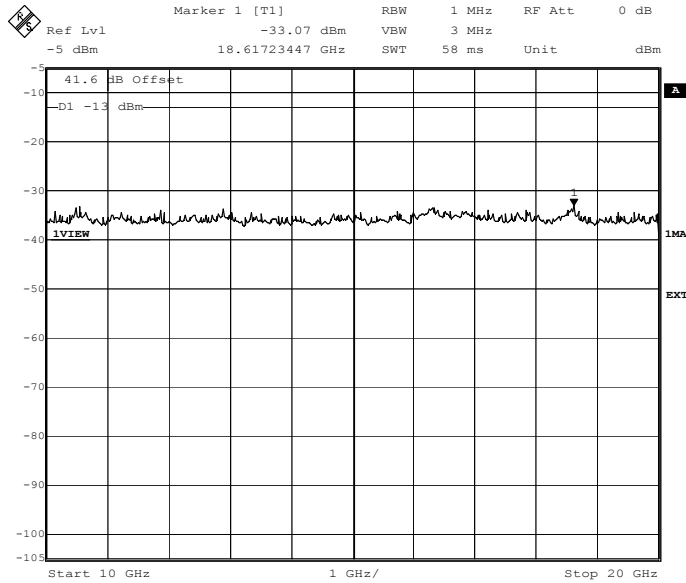
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch8096784. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 12:16:24



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch8096784. +41.5dBm. Conducted Spurious Emissions.  
 With hybrid. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 12:05:12

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 13:23:44

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=809 and TX5=784 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

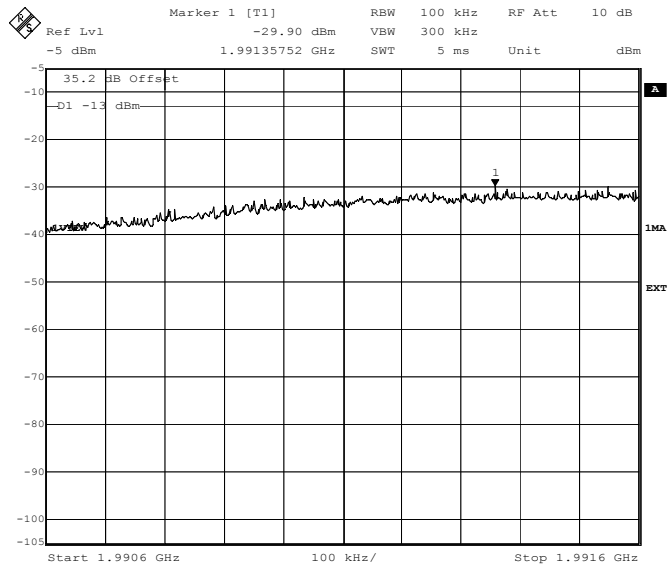
**First Band: 1990.6 to 1991.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	181.987	6	614.338
2	273.896	7	728.168
3	375.017	8	1024.000
4	508.683	9	792.209
5	593.691	10	947.834
<b>Total Peak Power:</b>		6039.823 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.6 to 1991.6	-22.2	-13.0	9.2	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch8096784. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 12:19:04

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=809 and TX5=784 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

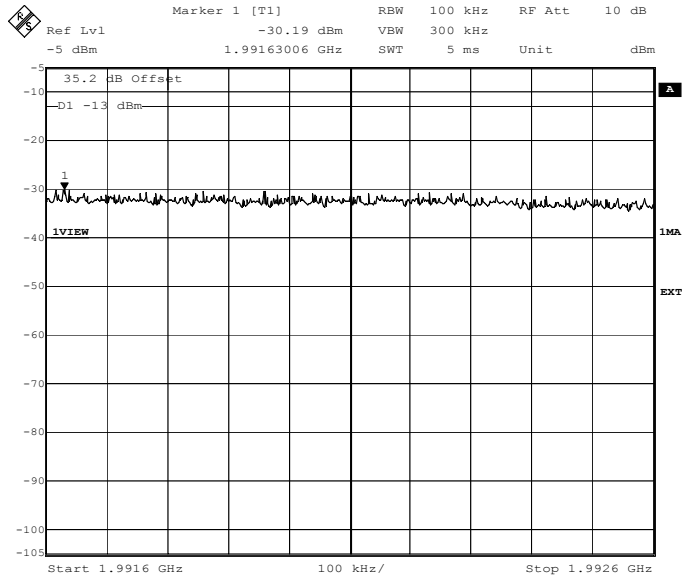
**Second Band: 1991.6 to 1992.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	958.098	6	773.150
2	805.677	7	800.412
3	864.711	8	682.281
4	846.679	9	668.993
5	770.620	10	624.197
<b>Total Peak Power:</b>		7794.818 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1991.6 to 1992.6	-21.1	-13.0	8.1	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 12:22:01

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4=809 and TX5=784 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

**Third Band: 1992.6 to 1993.6 MHz**

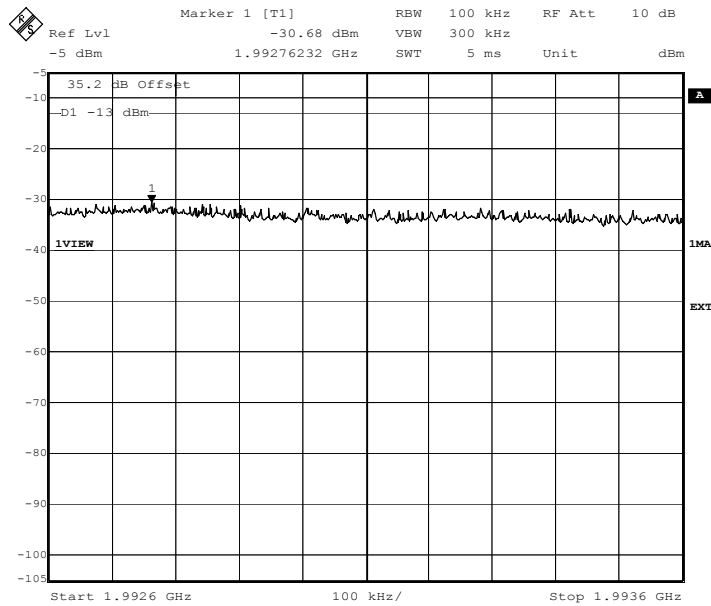
100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	681.003	6	605.484
2	855.847	7	650.458
3	767.739	8	593.136
4	718.010	9	620.118
5	650.458	10	562.565
<b>Total Peak Power:</b>		6704.818 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1992.6 to 1993.6	-21.7	-13.0	8.7	Complied



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +41.5dBm. Conducted Spurious Emissions.  
With hybrid. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 12:25:38

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**With TCC:**

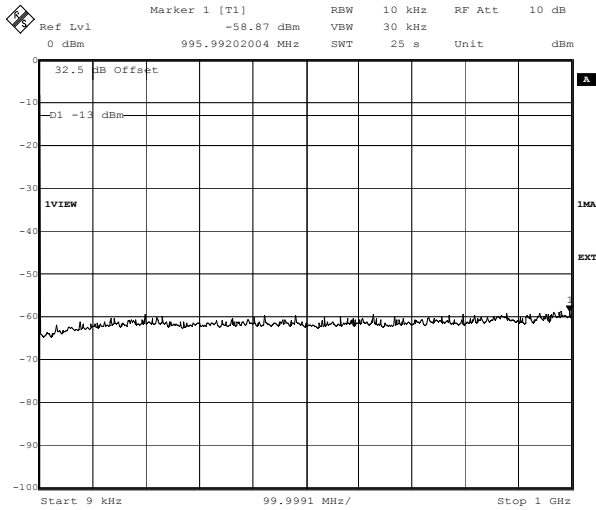
**Result: GMSK, TX4&TX5=513**

Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-58.8	-13.0	45.8	Complied
1.0 GHz to 1.92627 GHz	-24.2	-13.0	11.2	Complied
1.99 GHz to 2.5 GHz	-22.7	-13.0	9.7	Complied
2.5 GHz to 10.0 GHz	-30.9	-13.0	17.9	Complied
10.0 GHz to 20.0 GHz	-32.8	-13.0	19.8	Complied

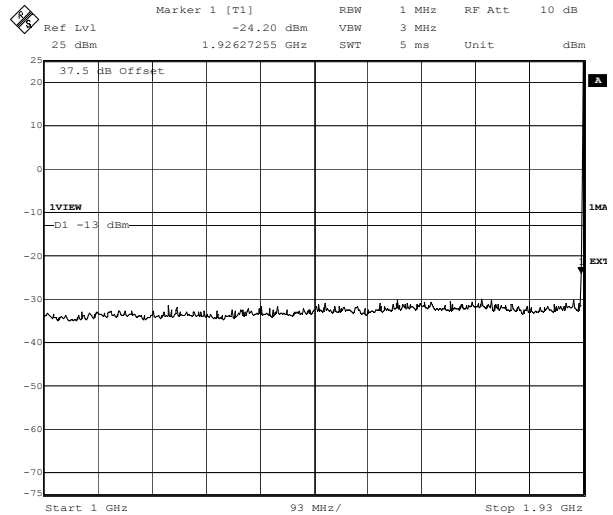
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

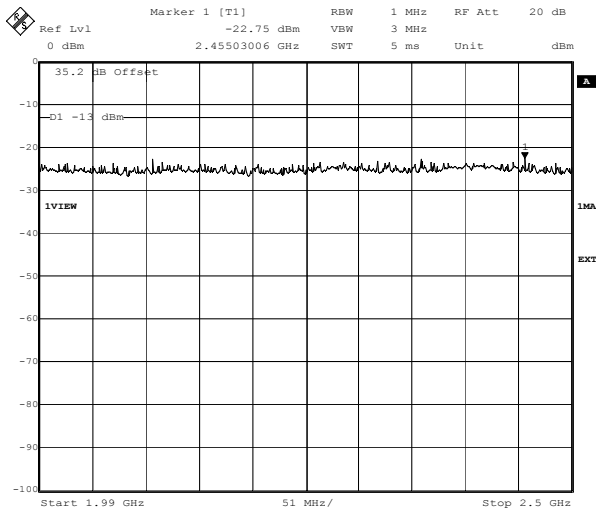
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



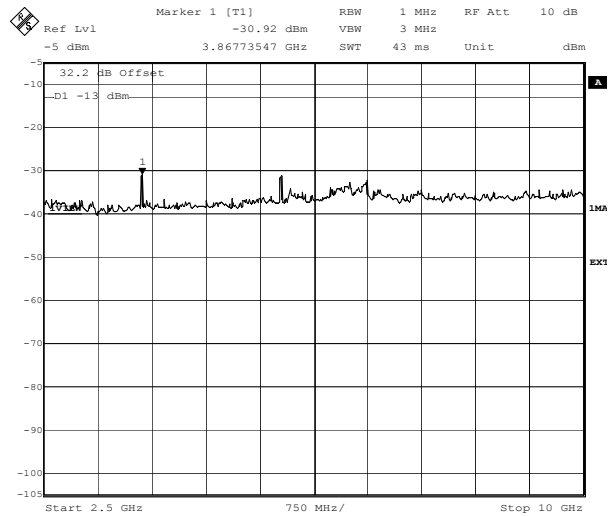
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 13:40:37



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:05:26



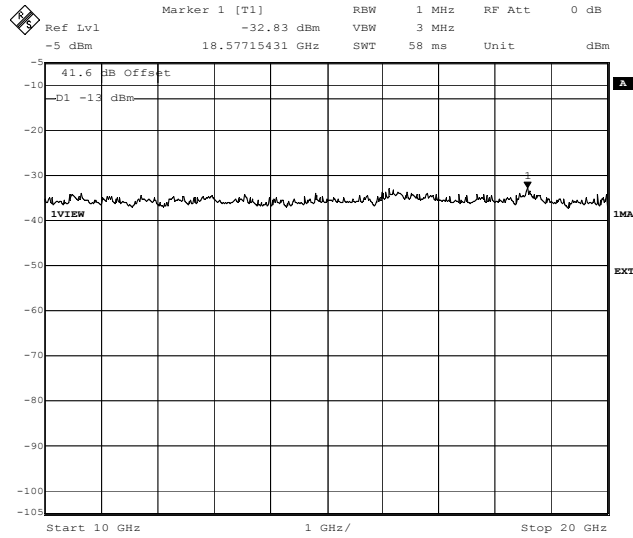
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:03:54



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch5136538. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:01:41

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +47.5dBm. Conducted Spurious Emissions. With TCC.  
GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 13:46:00

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4&TX5=513 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

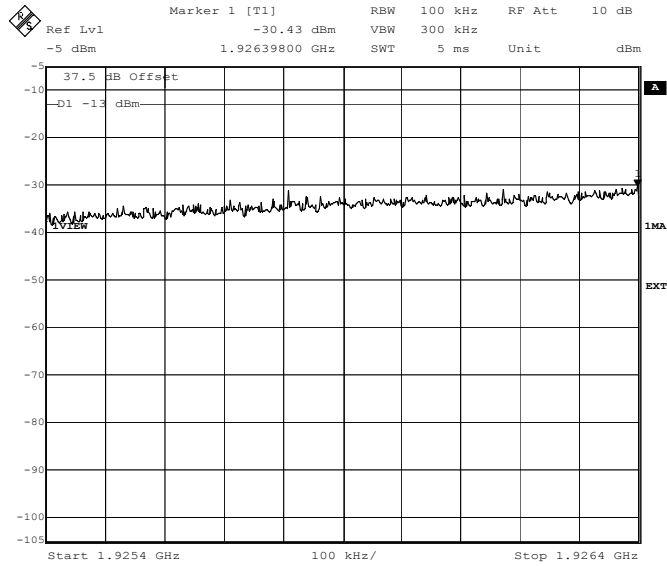
**First Band: 1925.4 to 1926.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	258.323	6	509.159
2	347.294	7	574.007
3	395.951	8	789.985
4	481.111	9	688.056
5	717.338	10	904.894
<b>Total Peak Power:</b>		5666.118 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1925.4 to 1926.4	-22.5	-13.0	9.5	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +47.5dBm. Conducted Spurious Emissions.  
With TCC. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:17:33

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4&TX5=513 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

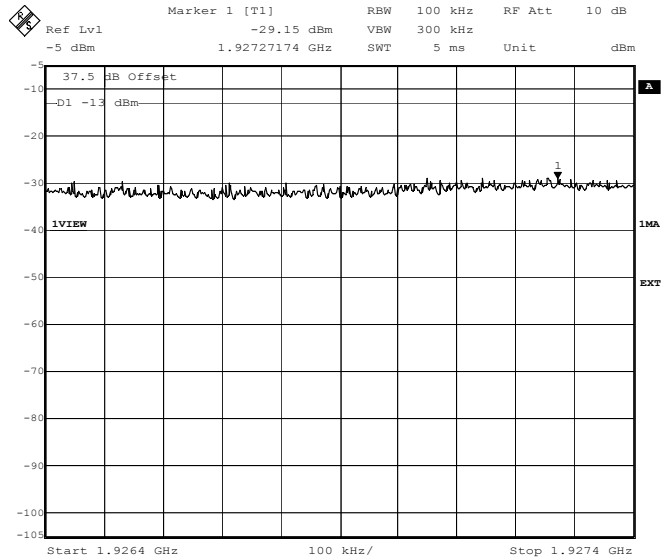
**Second Band: 1926.4 to 1927.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1023.000	6	919.417
2	1027.000	7	1200.000
3	810.976	8	1210.000
4	974.842	9	1215.000
5	989.560	10	1107.000
<b>Total Peak Power:</b>		10476.795 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1926.4 to 1927.4	-19.8	-13.0	6.8	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +47.5dBm. Conducted Spurious Emissions.  
With TCC. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:15:35



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4&TX5=513 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

**Third Band: 1927.4 to 1928.4 MHz**

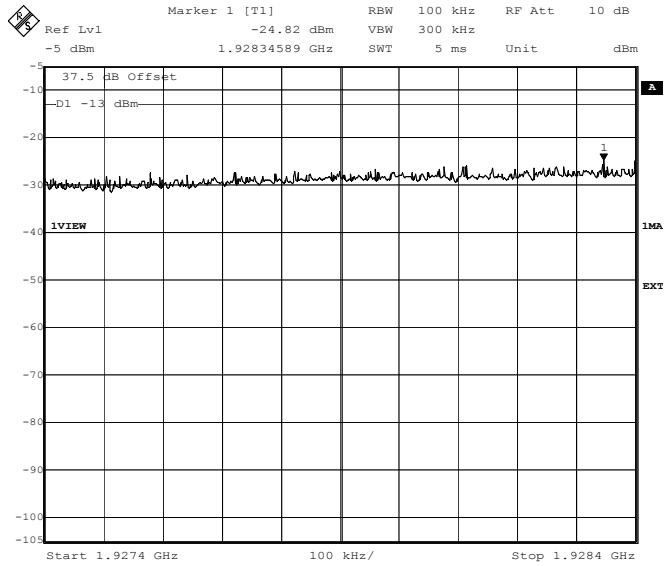
100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1286.000	6	2013.000
2	1757.000	7	2252.000
3	1570.000	8	2471.000
4	1755.000	9	2289.000
5	1794.000	10	3299.000
<b>Total Peak Power:</b>		20486.000 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1927.4 to 1928.4	-16.9	-13.0	3.9	Complied

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +47.5dBm. Conducted Spurious Emissions.  
With TCC. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:08:50

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4&TX5=513 (Continued)**

4<sup>th</sup> 1 MHz block immediately outside adjacent frequency block.

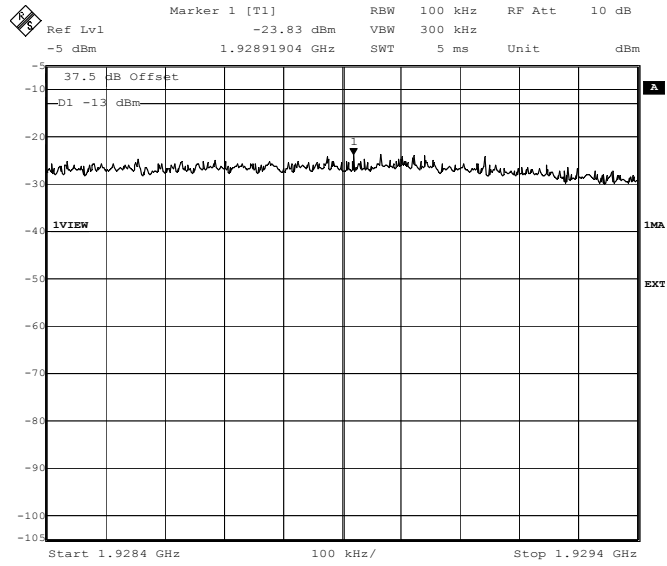
**Fourth Band: 1928.4 to 1929.4 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	2971.000	6	4142.000
2	3295.000	7	3805.000
3	2992.000	8	3726.000
4	2876.000	9	2507.000
5	3557.000	10	1842.000
<b>Total Peak Power:</b>		31713.000 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.4 to 1929.4	-15.0	-13.0	2.0	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch513&538. +47.5dBm. Conducted Spurious Emissions.  
With TCC. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:06:33

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

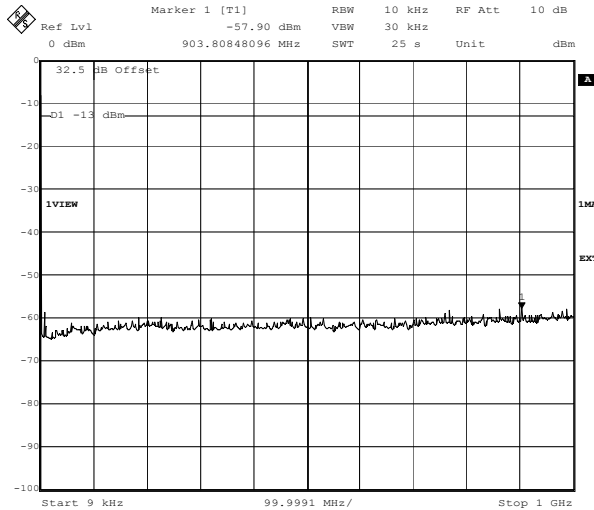
**Result: GMSK, TX4&TX5=809**

Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-57.9	-13.0	44.9	Complied
1.0 GHz to 1.93 GHz	-20.7	-13.0	7.7	Complied
1.99306 GHz to 2.5 GHz	-14.2	-13.0	1.2	Complied
2.5 GHz to 10.0 GHz	-30.9	-13.0	17.9	Complied
10.0 GHz to 20.0 GHz	-32.4	-13.0	19.4	Complied

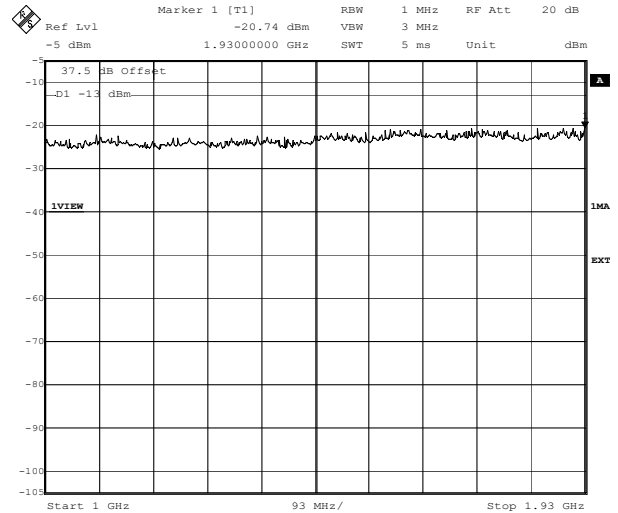
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

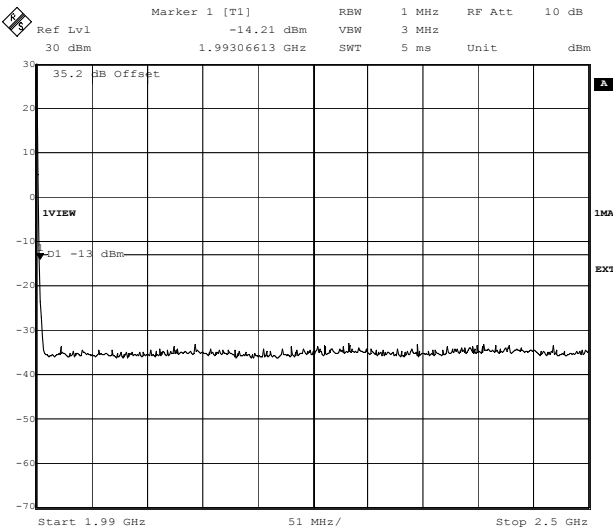
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



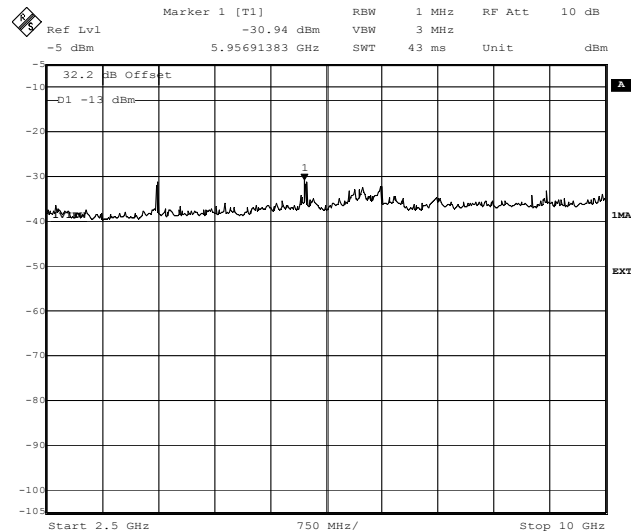
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:45:04



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:27:09



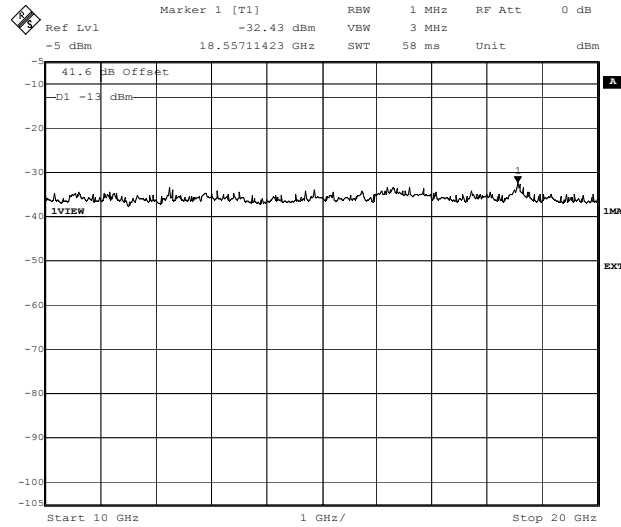
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:33:40



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +47.5dBm. Conducted Spurious Emissions.  
 With TCC. GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:29:07

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: CH809#784. +47.5dBm. Conducted Spurious Emissions. With TCC.  
GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:49:25

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4&TX5=809 (Continued)**

1<sup>st</sup> 1 MHz block immediately outside adjacent frequency block.

**First Band: 1990.6 to 1991.6 MHz**

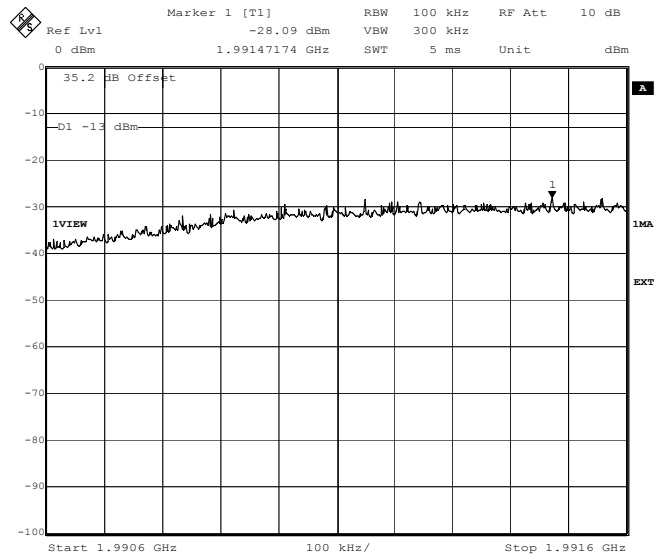
100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	246.450	6	1393.000
2	357.109	7	1247.000
3	646.364	8	1161.000
4	802.483	9	1552.000
5	1100.000	10	1455.000
<b>Total Peak Power:</b>		9960.406 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.6 to 1991.6	-20.0	-13.0	7.0	Complied



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch8094784. +47.5dBm. Conducted Spurious Emissions.  
With TCC. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:35:09

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4&TX5=809 (Continued)**

2<sup>nd</sup> 1 MHz block immediately outside adjacent frequency block.

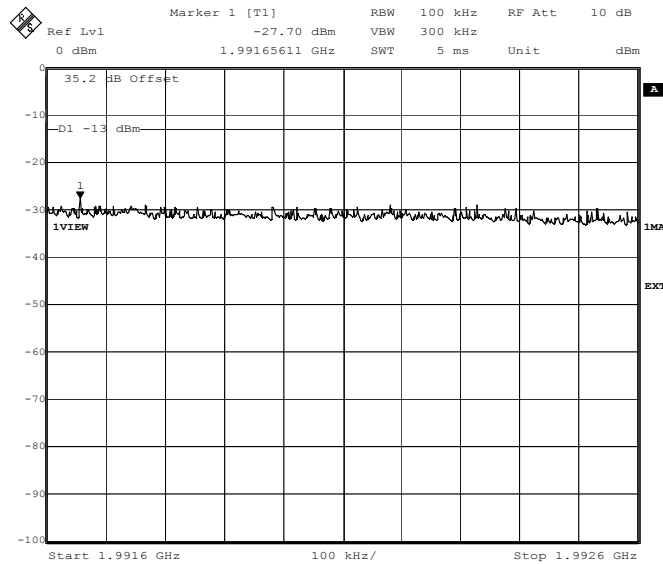
**Second Band: 1991.6 to 1992.6 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	1697.000	6	1224.000
2	1258.000	7	1048.000
3	1088.000	8	1258.000
4	1104.000	9	911.921
5	1072.000	10	1032.000
<b>Total Peak Power:</b>		11692.921 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1991.6 to 1992.6	-19.3	-13.0	6.3	Complied

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +47.5dBm. Conducted Spurious Emissions.  
With TCC. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:37:51

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Results: GMSK, TX4&TX5=809 (Continued)**

3<sup>rd</sup> 1 MHz block immediately outside adjacent frequency block.

**Third Band: 1992.6 to 1993.6 MHz**

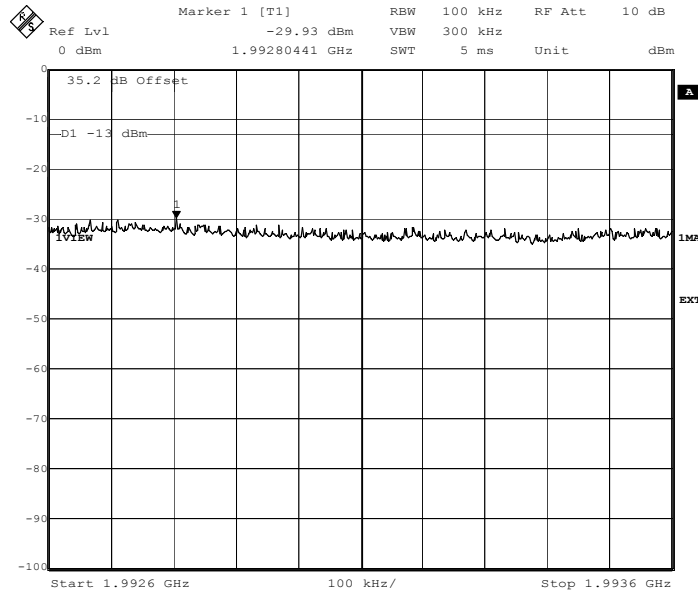
100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	923.956	6	631.701
2	933.961	7	575.223
3	1016.000	8	622.014
4	731.421	9	607.334
5	632.293	10	617.660
<b>Total Peak Power:</b>		7291.563 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1992.6 to 1993.6	-21.4	-13.0	8.4	Complied

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch809&784. +47.5dBm. Conducted Spurious Emissions.  
With TCC. GMSK TX4/TX5. FCC Part 24.238  
Date: 13.APR.2004 14:40:06

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

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

7.8.1. The EUT was configured as for conducted emissions testing as described in Section 9 of this report.

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

#### **Without hybrid:**

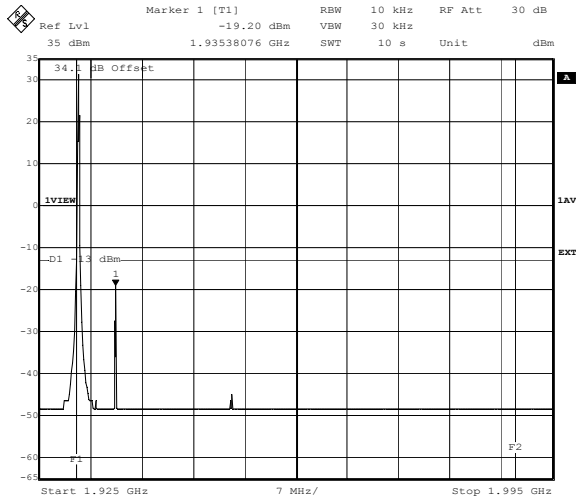
#### **Results: GMSK, TX4 and TX5**

TX	Channel pair	Peak Power Emission (dBm)	Frequency (MHz)	Limit (dBm)	Margin (dB)	Result
TX4/TX5	513&538	-19.2	1935.38076	-13.0	6.2	Complied
TX4/TX5	809&784	-23.4	1984.61924	-13.0	10.4	Complied
TX5/TX4	513&538	-20.1	1935.38076	-13.0	7.1	Complied
TX5/TX4	809&784	-25.8	1984.61924	-13.0	12.8	Complied

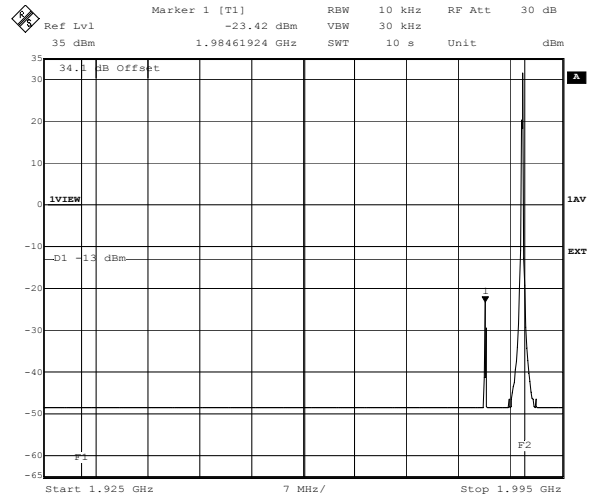
---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

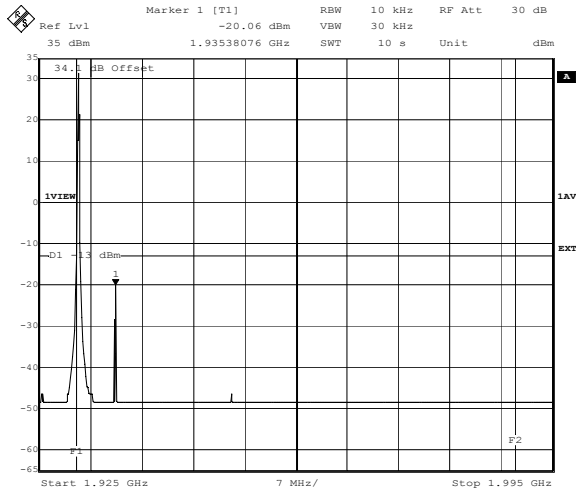
**Transmitter Conducted Intermodulation Responses: Section 2.1051/24.238 (a) (Continued)**



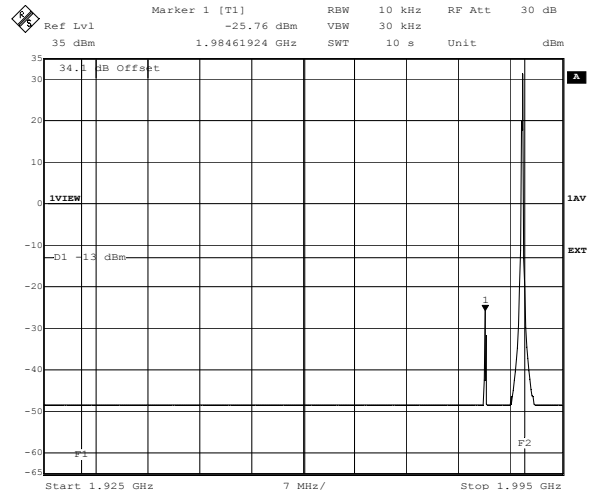
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch5136538. +44.8dBm. TX Inband Intermodulation.  
Without hybrid. GMSK TX46TX5. FCC Part 24.238  
Date: 9.APR.2004 10:29:20



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch8096784. +44.8dBm. TX Inband Intermodulation.  
Without hybrid. GMSK TX46TX5. FCC Part 24.238  
Date: 9.APR.2004 11:47:54



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch5136538. +44.8dBm. TX Inband Intermodulation.  
Without hybrid. GMSK TX56TX4. FCC Part 24.238  
Date: 9.APR.2004 12:34:29



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
Comment A: Ch8096784. +44.8dBm. TX Inband Intermodulation.  
Without hybrid. GMSK TX56TX4. FCC Part 24.238  
Date: 13.APR.2004 08:06:19

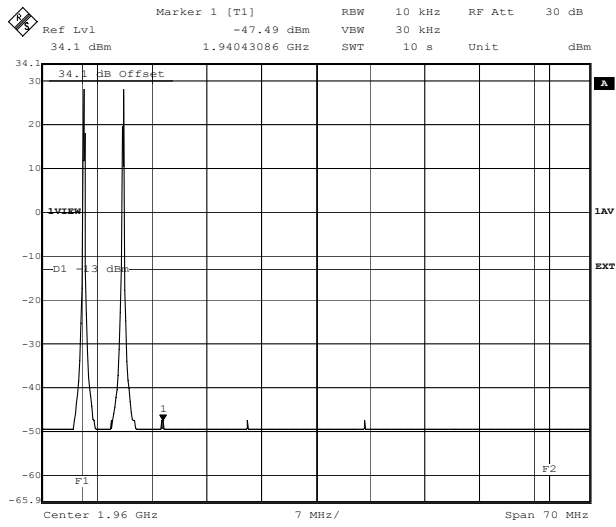
Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

**Transmitter Conducted Intermodulation Responses: Section 2.1051/24.238 (a) (Continued)**

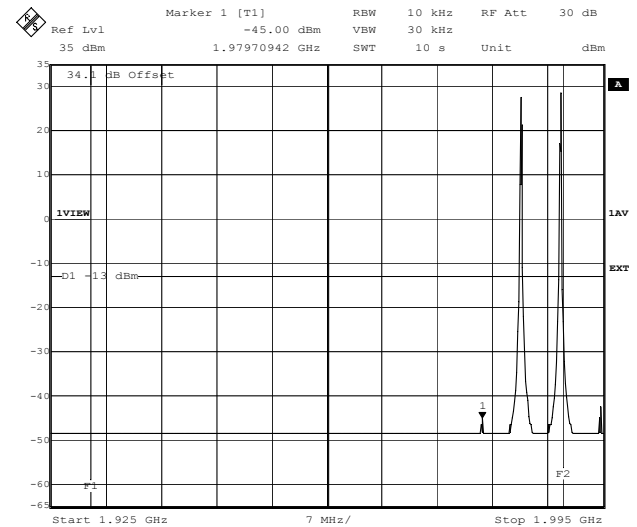
**With hybrid:**

**Results: GMSK, TX4 and TX5**

TX	Channel pair	Peak Power Emission (dBm)	Frequency (MHz)	Limit (dBm)	Margin (dB)	Result
TX4/TX5	513&538	-47.5	1940.43086	-13.0	34.5	Complied
TX4/TX5	809&784	-43.0	1979.70942	-13.0	30.0	Complied



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513&538. +41.5dBm. TX Inband Intermodulation. With hybrid.  
 GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 09:55:30



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +41.5dBm. TX Inband Intermodulation. With hybrid.  
 GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 12:08:42

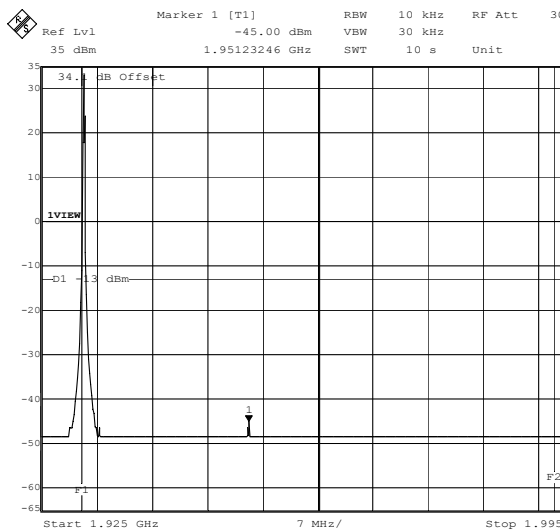


Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

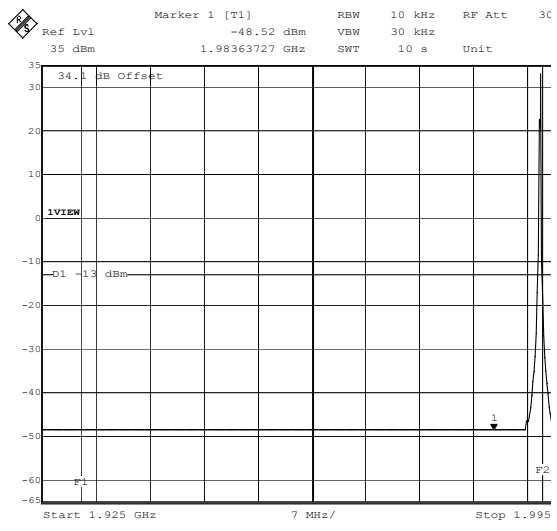
**Transmitter Conducted Intermodulation Responses: Section 2.1051/24.238 (a) (Continued)**  
**With TCC:**

**Results: GMSK, TX4 and TX5**

TX	Channel pair	Peak Power Emission (dBm)	Frequency (MHz)	Limit (dBm)	Margin (dB)	Result
TX4/TX5	513&538	-43.0	1951.23246	-13.0	30.0	Complied
TX4/TX5	809&784	-48.5	1983.63727	-13.0	35.5	Complied



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513&538. +47.5dBm. TX Inband Intermodulation. With TCC.  
 GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 13:59:39



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809&784. +47.5dBm. TX Inband Intermodulation. With TCC.  
 GMSK TX4/TX5. FCC Part 24.238  
 Date: 13.APR.2004 14:31:41

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

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

7.9.1. The EUT was configured as for conducted emissions at band edges testing as described in Section 9 of this report.

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

#### **Without hybrid:**

#### **Results: GMSK – TX4**

##### **Lower Band Edge**

Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	40.8	512	-15.2	-13.0	2.2	Complied
1930.0	44.8	513	-46.6	-13.0	33.6	Complied

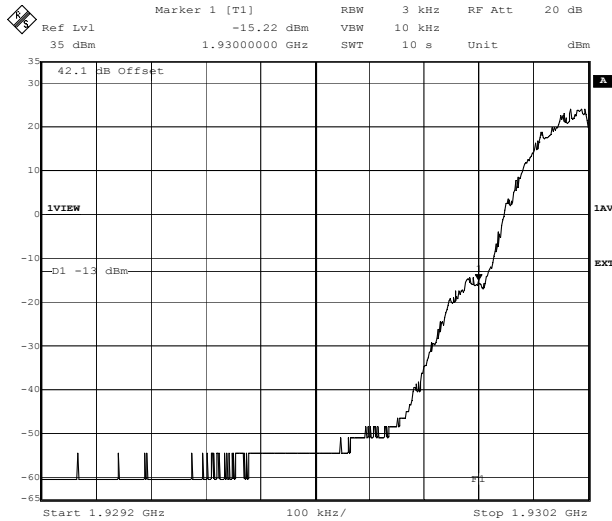
##### **Upper Band Edge**

Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	38.8	810	-18.2	-13.0	5.2	Complied
1990.0	44.8	809	-43.0	-13.0	30.0	Complied

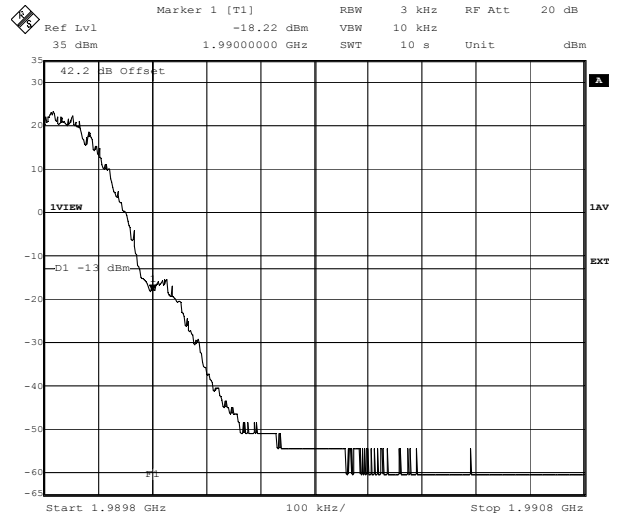
---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

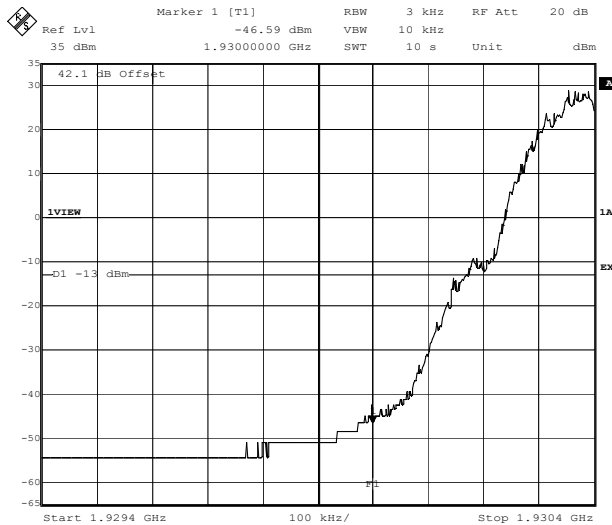
**Transmitter Conducted Emissions at Band Edges: Section 2.1051/24.238 (Continued)**



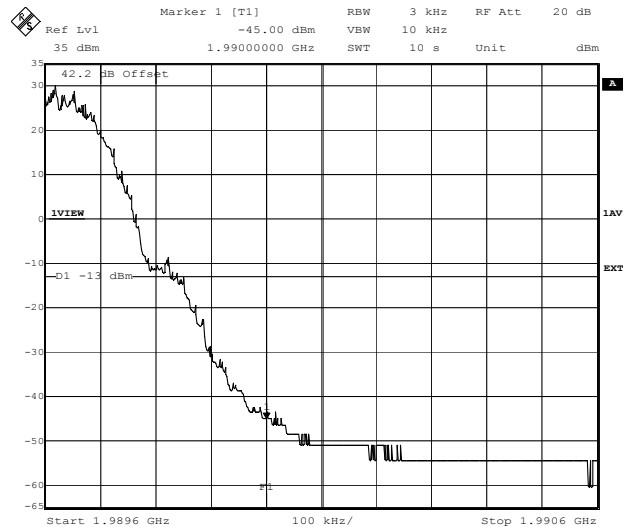
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch512. +40.8dBm. Band Edges. Without hybrid. GMSK TX4.  
 FCC Part 24.238  
 Date: 1.APR.2004 14:45:45



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch810. +38.8dBm. Band Edges. Without hybrid. GMSK TX4.  
 FCC Part 24.238  
 Date: 1.APR.2004 15:28:56



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513. +44.8dBm. Band Edges. Without hybrid. GMSK TX4.  
 FCC Part 24.238  
 Date: 1.APR.2004 15:18:17



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809. +44.8dBm. Band Edges. Without hybrid. GMSK TX4.  
 FCC Part 24.238  
 Date: 1.APR.2004 15:21:21

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Emissions at Band Edges: Section 2.1051/24.238 (Continued)**

**Results: GMSK – TX5**

**Lower Band Edge**

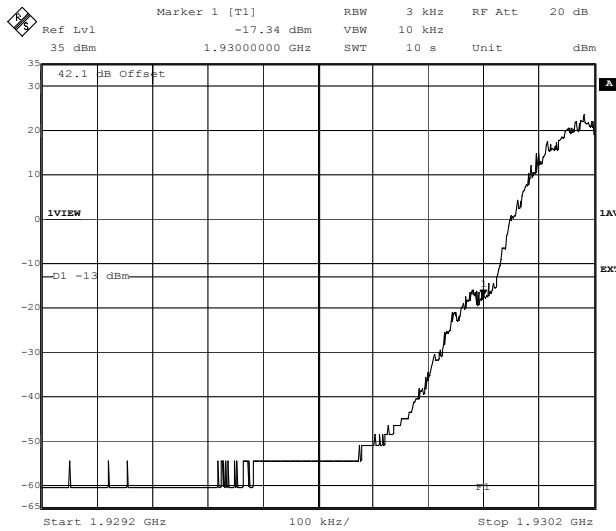
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	38.8	512	-17.3	-13.0	4.3	Complied
1930.0	44.8	513	-43.7	-13.0	30.7	Complied

**Upper Band Edge**

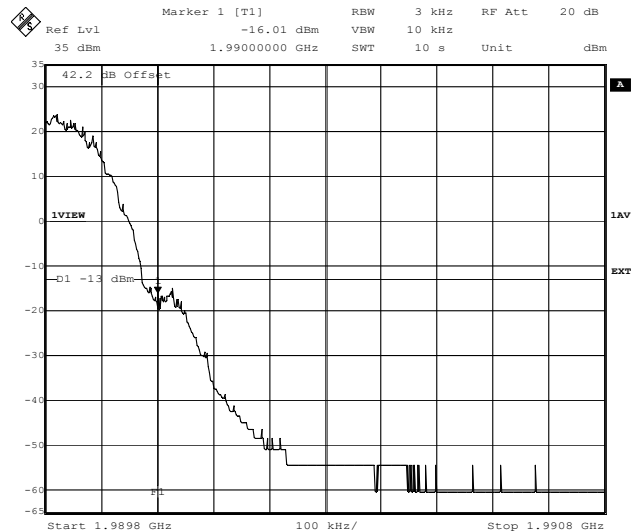
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	38.8	810	-16.0	-13.0	3.0	Complied
1990.0	44.8	809	-42.5	-13.0	29.5	Complied

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

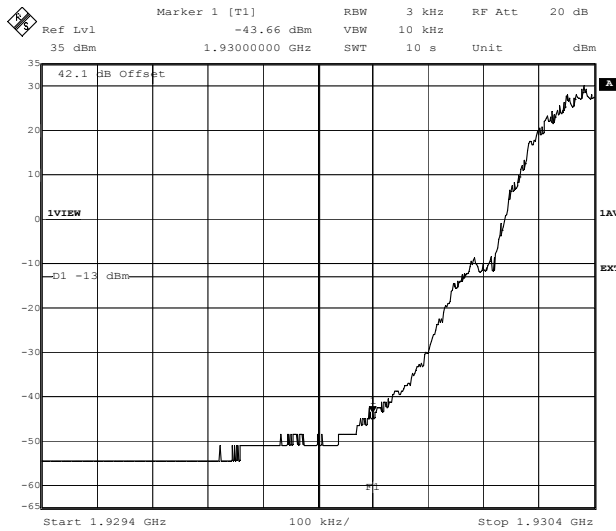
**Transmitter Conducted Emissions at Band Edges: Section 2.1051/24.238 (Continued)**



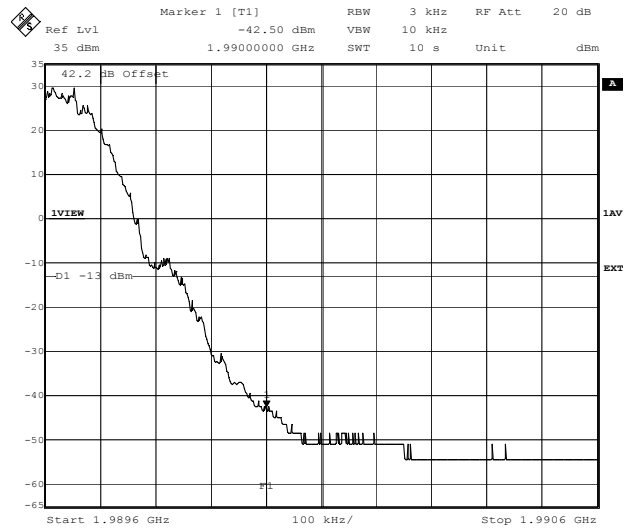
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch512. +38.8dBm. Band Edges. Without hybrid. GMSK TX5.  
 FCC Part 24.238  
 Date: 2.APR.2004 09:05:13



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch810. +38.8dBm. Band Edges. Without hybrid. GMSK TX5.  
 FCC Part 24.238  
 Date: 2.APR.2004 09:29:42



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513. +44.8dBm. Band Edges. Without hybrid. GMSK TX5.  
 FCC Part 24.238  
 Date: 2.APR.2004 09:17:15



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809. +44.8dBm. Band Edges. Without hybrid. GMSK TX5.  
 FCC Part 24.238  
 Date: 2.APR.2004 09:20:37

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

**Transmitter Conducted Emissions at Band Edges: Section 2.1051/24.238 (Continued)**

**With TCC:**

**Results: GMSK – TX4&TX5**

**Lower Band Edge**

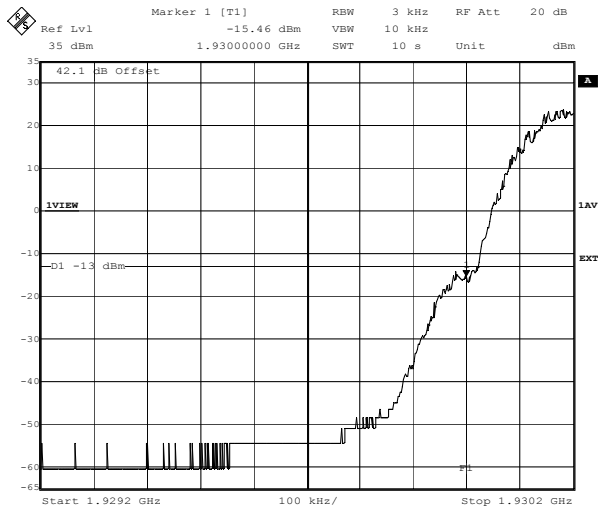
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	41.5	512	-15.5	-13.0	2.5	Complied
1930.0	47.5	513	-43.7	-13.0	30.7	Complied

**Upper Band Edge**

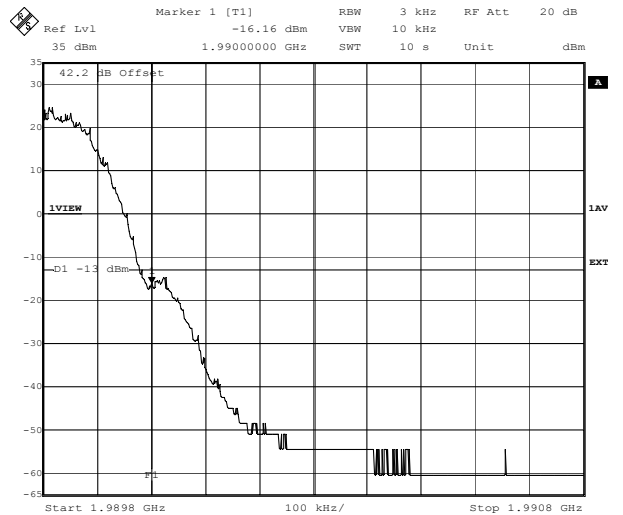
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	41.5	810	-16.2	-13.0	3.2	Complied
1990.0	47.5	809	-43.7	-13.0	30.7	Complied

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

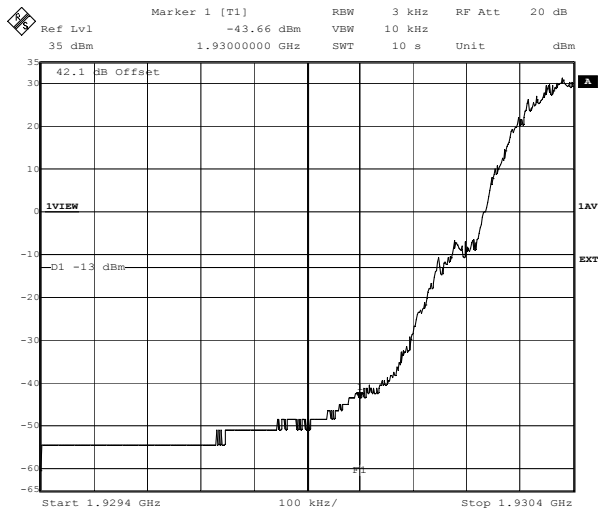
**Transmitter Conducted Emissions at Band Edges: Section 2.1051/24.238 (Continued)**



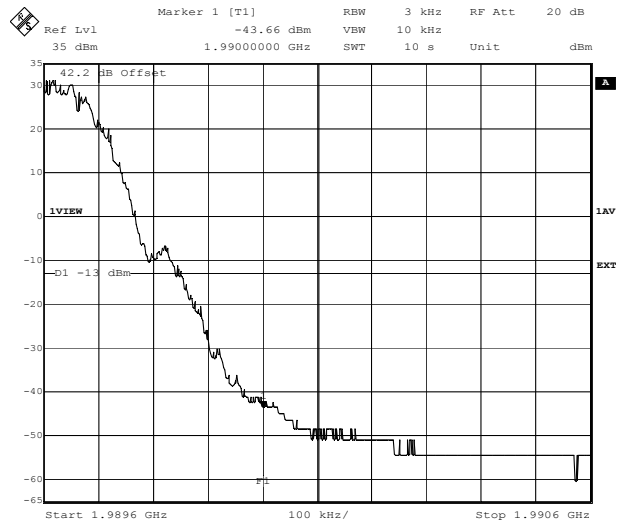
Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch512. +41.5dBm. Band Edges. With TCC. GMSK TX4+TX5.  
 FCC Part 24.238  
 Date: 1.APR.2004 10:03:04



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch810. +41.5dBm. Band Edges. With TCC. GMSK TX4+TX5.  
 FCC Part 24.238  
 Date: 1.APR.2004 11:12:26



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch513. +47.5dBm. Band Edges. With TCC. GMSK TX4+TX5.  
 FCC Part 24.238  
 Date: 1.APR.2004 13:49:55



Title: Testing for Ericsson AB. RBS2206 1900MHz. 46053JD01  
 Comment A: Ch809. +47.5dBm. Band Edges. With TCC. GMSK TX4+TX5.  
 FCC Part 24.238  
 Date: 1.APR.2004 13:59:50

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **7.10. Transmitter Radiated Emissions: Section 2.1053/24.238 (a)**

#### **Electric Field Strength Measurements of Spurious Emissions and Intermodulation Products: 30 MHz to 20 GHz**

7.10.1. The EUT was configured as for radiated emissions testing as described in Section 9 of this report.

7.10.2. Tests were performed to identify the field strength of spurious emissions.

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

#### **Results:**

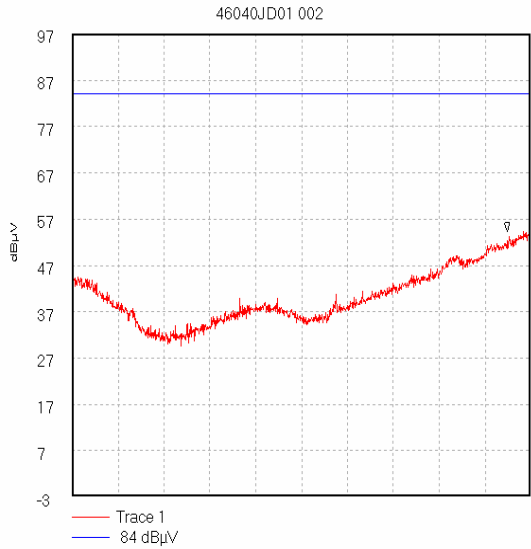
Excluding the fundamental emissions, all other indicated spurious and Intermodulation responses were at least 20 dB below the relevant limit; therefore no final measurements were performed

---

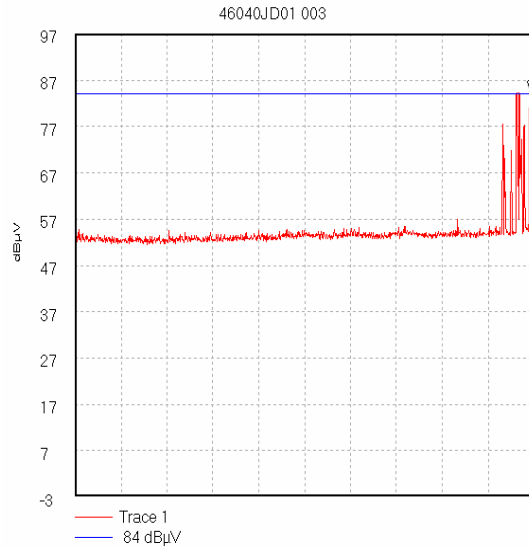


Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

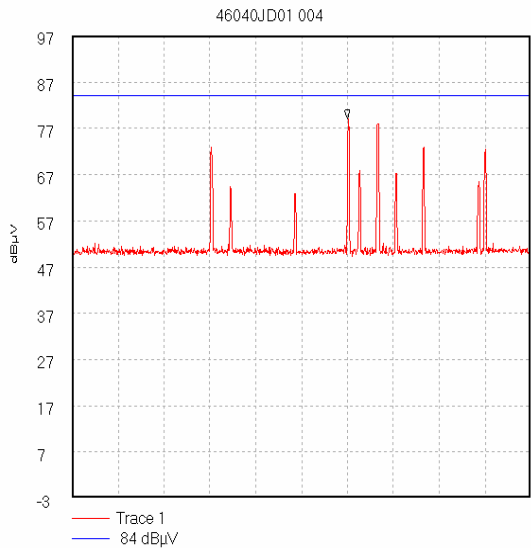
**Transmitter Radiated Emissions: Section 2.1053/24.238 (a) (Continued)**



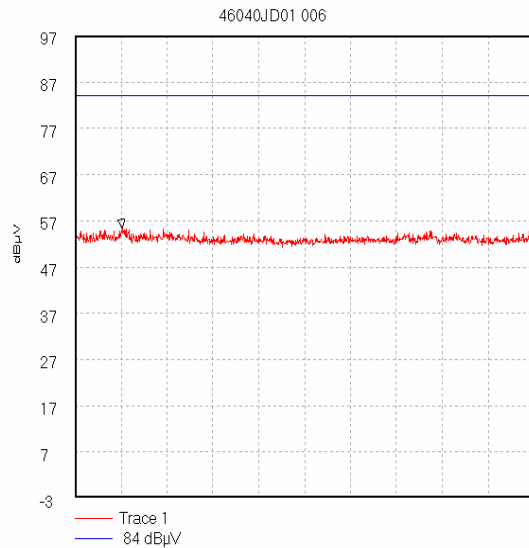
Start 30.0 MHz; Stop 1.0 GHz  
Ref 97 dBµV; Ref Offset 0.0 dB; 10 dB/div  
RBW 120.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 380.0 mS  
Peak 950.611 MHz; 54.32 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 09:49:17



Start 1.0 GHz; Stop 2.0 GHz  
Ref 97 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 1.992 GHz; 85.04 dBµV  
Display Line: 84 dBµV; ; Limit Test Failed  
24/03/2004 10:29:46



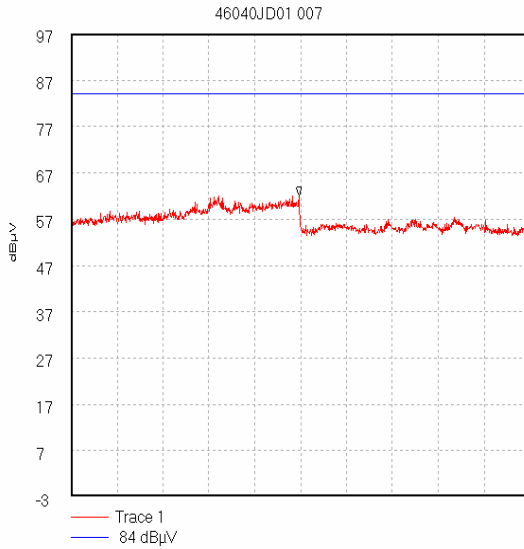
Start 1.9 GHz; Stop 2.0 GHz  
Ref 97 dBµV; Ref Offset 0.0 dB; 10 dB/div  
RBW 120.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 60.0 mS  
Peak 1.96 GHz; 79.08 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 10:43:41



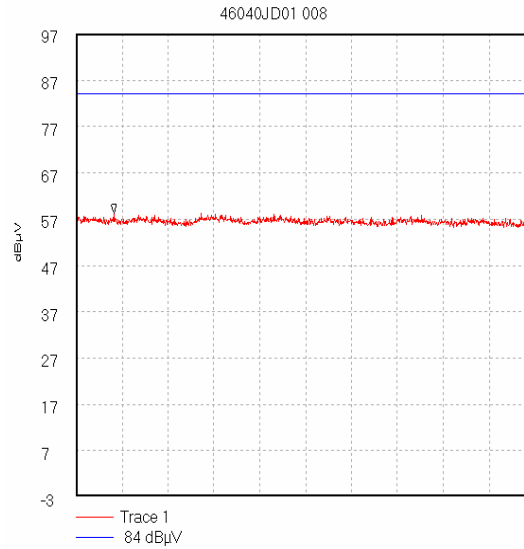
Start 2.0 GHz; Stop 4.0 GHz  
Ref 97 dBµV; Ref Offset 0.0 dB; 10 dB/div  
RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 20.0 mS  
Peak 2.204 GHz; 55.38 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 11:30:00

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

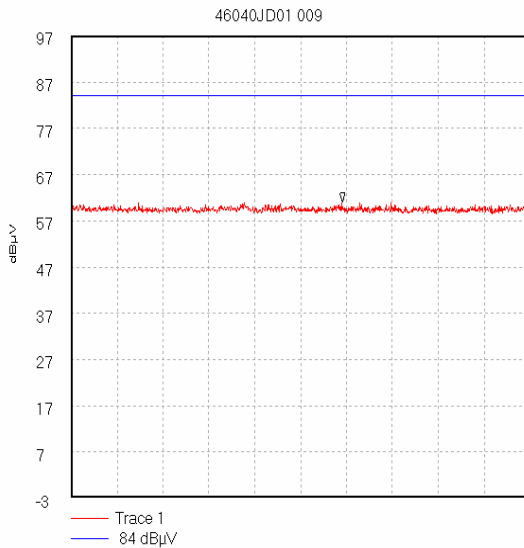
**Transmitter Radiated Emissions: Section 2.1053/24.238 (a) (Continued)**



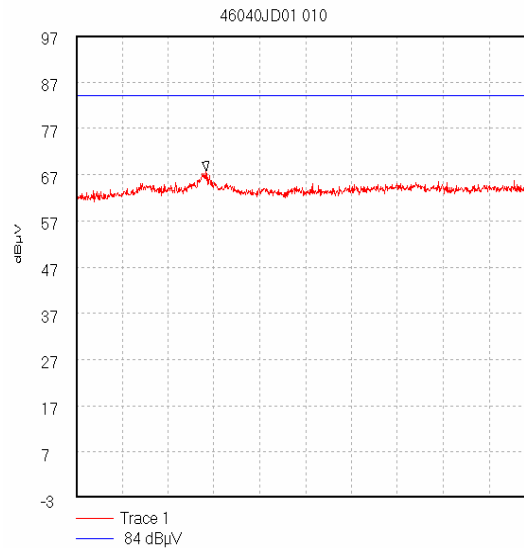
Start 4.0 GHz; Stop 6.0 GHz  
Ref 97 dBµV; Ref Offset 0.0 dB; 10 dB/div  
RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 20.0 mS  
Peak 4.993 GHz, 62.06 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 11:40:23



Start 6.0 GHz; Stop 8.0 GHz  
Ref 97 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 6.164 GHz, 58.33 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 11:49:07



Start 8.0 GHz; Stop 12.5 GHz  
Ref 97 dBµV; Ref Offset 0.0 dB; 10 dB/div  
RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 40.0 mS  
Peak 10.66 GHz, 61.0 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 12:00:46

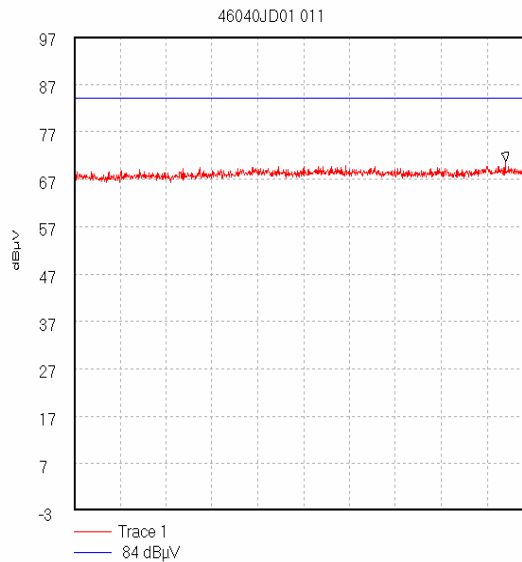


Start 12.5 GHz; Stop 18.0 GHz  
Ref 97 dBµV; Ref Offset 0.0 dB; 10 dB/div  
RBW 1000.0 kHz; VBW 3.0 MHz; Att 0 dB; Swp 40.0 mS  
Peak 14.058 GHz, 67.8 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 12:08:58

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Transmitter Radiated Emissions: Section 2.1053/24.238 (a) (Continued)**



Start 18.0 GHz; Stop 20.0 GHz  
Ref 97 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 19.882 GHz, 70.77 dBµV  
Display Line: 84 dBµV; ; Limit Test Passed  
24/03/2004 12:19:07

---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

**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	1930 to 1990 MHz	95%	+/- 0.6 dB
Frequency Stability	1930 to 1990 MHz	95%	+/- 5.0 Hz
Occupied Bandwidth	1930 to 1990 MHz	95%	+/- 5.0 Hz
Modulation Characteristics	1930 to 1990 MHz	95%	Phase error +/- 2.1° EVM (rms) <0.5% Origin Offset +/- 0.54 dB
Conducted Out of Band Emissions	9 kHz to 1 GHz	95%	+/- 4.4 dB
Conducted Emissions Inband Intermodulation	1930 to 1990 MHz	95%	+/- 0.7 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	+/- 5.26 dB
Radiated Spurious Emissions	1 GHz to 26 GHz	95%	+/- 4.18 dB
Emissions at Band Edges	1930 to 1990 MHz	95%	+/- 0.7 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.

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## **9. Measurement Methods**

### **9.1. Conducted Carrier Output Power**

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.

Measurements were made at the ARP output connectors and testing was performed on bottom, middle and top channels using GMSK modulation on TX4 and TX5.

The BTS output was connected to a spectrum analyser, via cables, a 50 Ohm attenuator and two 20dB, 100W attenuators. The path loss was entered into the spectrum analyser as a reference level offset.

The test equipment settings for conducted carrier output power measurements were as follows:

<b>Receiver Function</b>	<b>Setting</b>
Detector Type:	Peak
Mode:	Max Hold
Bandwidth:	1 MHz
Step Size:	Continuous sweep
Sweep Time:	Coupled

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## **9.2. Modulation Characteristics**

Tests were performed to identify the modulation characteristics in accordance with FCC Part 2.1047, with reference to TIA\_EIA\_603B.

Measurements were made at the ARP output connectors and testing was performed on middle channel only.

The output was connected to a spectrum analyser, which was used in GSM BTS analyser mode, via cables and with 40 dB of attenuation in the path.

The phase error was measured for GMSK.

---

Test Of: Ericsson AB.  
 RBS 2206 1900 MHz (GMSK)  
 To: FCC Part 24: 2003

---

**9.3. Frequency Stability**

The EUT was situated within an environmental test chamber and connected to test equipment via an air link radiated from the antenna.

Measurements were performed with the EUT operating under extremes of temperature in 10 degree increments within the range -30 to 50 Deg C.

Measurements were also performed at voltage extremes between the declared nominal supply voltage and at the declared endpoint voltage.

The requirement was to determine the frequency stability of the device under specified environmental operating conditions.

Measurements were made on the bottom and top channels.

The EUT was switched off for a minimum of 30 minutes between each stage of testing while the environmental chamber stabilised at the next temperature within the stated temperature range.

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

$$\text{Margin (MHz)} = \text{UBEF}_{\text{MHz}} - \text{MCF}_{\text{MHz}} \text{ (for top channel),}$$

$$\text{Margin (MHz)} = \text{MCF}_{\text{MHz}} - \text{LBEF}_{\text{MHz}} \text{ (for bottom channel),}$$

where,

MCF<sub>MHz</sub> is the measured carrier frequency in MHz  
 LBEF<sub>MHz</sub> is the lower band edge carrier frequency in MHz  
 UBEF<sub>MHz</sub> is the upper band edge carrier frequency in MHz.

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 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

#### **9.4. Occupied Bandwidth**

The EUT was connected to a spectrum analyser enabled with an occupied bandwidth function.

Measurements were performed to determine the Occupied Bandwidth in accordance with FCC Part 2.1049. The Occupied Bandwidth was measured on the bottom middle and top channels.

The Occupied Bandwidth was measured using the built in occupied bandwidth function of the Rohde and Schwarz FSIQ spectrum analyser. It was set to measure the bandwidth where 99% of the signal power was contained. The analyser settings were set as per those outlined in the FSIQ user manual for this measurement, i.e., RBW  $\leq$  1/20 of occupied bandwidth. A value of 3 kHz was used.

---



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **9.5. Transmitter Conducted Emissions**

Spurious emission measurements at the Antenna port were performed from 9 kHz to 10 times the highest EUT fundamental frequency as used in Section 7.7 of this report.

A spectrum analyser was connected to the antenna port of the EUT via cables, attenuators and filters. The total loss of the path was measured and entered as a reference level offset into the spectrum analyser to correct for the losses.

The limit 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. This limit always reduces to  $-13$  dBm as such, the limit line presented on the accompanying plots is set to  $-13$  dBm.

The frequency band described above was investigated with the transmitter operating at full power on B+1 and T-1 channels. Any spurious emissions observed were recorded and compared to the  $-13$  dBm limit. The requirement for the emission is to be less than  $-13$  dBm.

It should be noted that FCC Part 24.238 states that the 1<sup>st</sup> MHz band immediately adjacent to the applicants declared frequency block may be measured using a resolution bandwidth of at least 1% of the emission bandwidth. This bandwidth was found to be 3 kHz.

The test equipment settings for conducted antenna port measurements were as follows:

<b>Receiver Function</b>	<b>Settings</b>
Detector Type:	Peak
Mode:	Max Hold
Bandwidth:	1 MHz >1GHz
Bandwidth:	10 kHz <1GHz
Step Size:	Continuous sweep
Sweep Time:	Coupled

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **9.6. Conducted Emissions Inband Intermodulation**

Conducted Emissions Inband Intermodulation measurements were performed at the Antenna port.

A spectrum analyser was connected to the antenna port of the EUT via cables and attenuators. The total loss of the path was measured and entered as a reference level offset into the spectrum analyser to correct for the losses.

The base station was set up to transmit on two transmitters. First at bottom ARFCN and bottom ARFCN +25 and then on top ARFCN and top ARFCN -25, 5 MHz apart as this was stated by the client as being worst case for intermodulation purposes. However, as the band edge ARFCNs need to be reduced by 6dB, the adjacent channels were measured at full output power instead. Bottom ARFCN +1 and bottom ARFCN +26, top ARFCN -1 and top ARFCN -26.

The limit in the standard states that emissions shall be attenuated by at least  $43+10 \log(P)$  dB below the transmitter power (P), where (P) is the maximum measured fundamental power for the channel under test. This limit always reduces to -13 dBm as such, the limit line presented on the accompanying plots is set to -13 dBm. The transmitter power (P) measured at the antenna terminals and used to calculate the out of band emission limit as stated above was measured as 43.8 dBm without combiner, 40.5 dBm with combiner and 42.6 dBm with combiner in TCC mode using an average detector.

Any spurious emissions observed were recorded and compared to the -13 dBm limit. The requirement for the emission is to be less than -13 dBm.

The test equipment settings for conducted antenna port measurements were as follows:

<b>Receiver Function:</b>	<b>Settings</b>
Detector Type:	Average
Mode:	Max Hold
Bandwidth:	10 kHz
Step Size:	Continuous sweep
Sweep Time:	10 s

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **9.7. Transmitter Conducted Emissions at Band Edges**

Testing was performed as per transmitter, conducted emissions.

The limit in the standard states that emissions shall be attenuated by at least  $43+10 \log(P)$  dB below the transmitter power (P), where (P) is the maximum measured fundamental power for the channel under test. This limit always reduces to  $-13$  dBm as such, the limit line presented on the accompanying plots is set to  $-13$  dBm.

The transmitter power (P) measured at the antenna terminals and used to calculate the out of band emission limit as stated above was measured as 43.8 dBm without combiner, 40.5 dBm with combiner and 42.6 dBm with combiner in TCC using an average detector.

In without hybrid mode this unit must use a reduced transmit power by 6 dB to 38.8 dBm for the channels adjacent to each frequency band edge in order to show compliance.

In TCC mode this unit must use a reduced transmit power by 6 dB to 41.5 dBm for the channels adjacent to each frequency band edge in order to show compliance.

<b>Receiver Function:</b>	<b>Settings</b>
Detector Type:	Average
Mode:	Max Hold
Resolution Bandwidth:	3kHz
Sweep Time:	10 s

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

### **9.8. 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 20 dB of this limit were measured where possible, on occasion; the receiver noise floor came within the 20 dB boundary.

The limit stated in the standard states that emissions shall be attenuated by at least  $43+10 \log(P)$  dB below the transmitter power (P), where (P) is the maximum measured fundamental power for the channel under test. The limit line was determined by radiating  $-13$  dBm from a dipole located in place of the EUT and measuring the equivalent field strength at the 3 meters.

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

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 20 GHz.

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

## Appendix 1. Test Equipment Used

### Test Equipment Used for Testing at Ericsson AB

Description	Manufacturer	Model Number	Serial Number
1.5m N-type N-type cable	Suhner	Sucoflex 104E	12375/4E
2.0m N-type N-type cable	Suhner	Sucoflex 104E	7505/4E
Network Analyser	Hewlett Packard	8720D	US34440122
Calibration CTRL Unit	Hewlett Packard	85060C	US34440122
Calibration Module	Hewlett Packard	85062-60001	00135
Calibration Module	Hewlett Packard	85062-60002	00121
Measuring Receiver	Hewlett Packard	8902A	3538A04057
Sensor Module	Hewlett Packard	HP11792A	3528A01881
DC Power Supply	PowerBox	PBX4355-55	N/A
DC Power Supply	PowerBox	PBX4355-55	N/A
DC Power Supply	Xantrex	XKW55-55	N/A
Temperature & Humidity Indicator	Rotronic	Hygroclip D	18471013
RBS Master 2	Ericsson	LPY 107 1007/1	0000000222
PC	Compaq	Evo	CZC3230BNX
Spectrum Analyser	Rhode&Schwarz	FSIQ 26	838600/010
Temperature Chamber	Vötsch	VCS 7250/S	585660319
20dB, 100 W Attenuator	Weinschel Corp.	48-20-34	BC2571
20dB, 100 W Attenuator	Weinschel Corp.	48-20-43	BF9234
RBS Master 2	Ericsson	LPY 107 1007/1	0000000044
Spectrum Analyser	Rhode&Schwarz	FSIQ 26	836131/013
Notch Filter	Ericsson	LPY 108 16/2	3
RF Box 1900MHz	Ericsson	LPY 107 616	4
4.0m N-type N-type cable	Suhner	Sucoflex 104PE	30637/4PE
1.5m SMA-type N-type cable	Suhner	Sucoflex 104E	1978/4E
PC	Compaq	Evo	CZC3230BP2
1.5m N-type N-type cable	Suhner	Sucoflex 104E	2648/4E
10dB, 100 W Attenuator	Weinschel Corp.	48-10-33	BG0329
50 W Terminator	Weinschel Corp.	M1426	BL3563
10dB, 100 W Attenuator	Weinschel Corp.	48-10-43	BL6942

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Test Equipment Used for Testing at Ericsson AB (Continued)**

Description	Manufacturer	Model Number	Serial Number
10dB, 100 W Attenuator	Weinschel Corp.	48-10-43	BL6953
10dB, 100 W Attenuator	Weinschel Corp.	48-10-43	BL6969
10dB, 100 W Attenuator	Weinschel Corp.	48-10-43	BL6943
10dB, 100 W Attenuator	Weinschel Corp.	48-10-43	BL6954
0.25m SMA-type SMA-type cable	Suhner	Sucoflex 104E	1895/4E
0.25m SMA-type N-type cable	Suhner	Sucoflex 104E	2695/4E
0.25m SMA-type SMA-type cable	Suhner	Sucoflex 104E	1666/4E
0.25m N-type N-type cable	Suhner	Sucoflex 104E	7744/4E
0.25m SMA-type N-type cable	Suhner	Sucoflex 104E	2689/4E
50 W Terminator	Weinschel Corp.	M1426	BL3590
50 W Terminator	Weinschel Corp.	M1426	BL3593
50 W Terminator	Weinschel Corp.	M1426	BL3577
50 W Terminator	Weinschel Corp.	M1426	BL3575
50 W Terminator	Weinschel Corp.	M1426	BL3580

**RFI Test Equipment Used for Testing at Ericsson AB**

Description	Manufacturer	Model Number	Serial Number
Multimeter	Fluke	77	63150434

---

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

### Test Equipment Used for Testing at Basingstoke

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
A027	Horn Antenna	Eaton	9188-2	301
A031	2 to 4 GHz Eaton Horn Antenna	Eaton	91889-2	557
A051	ESH3-Z6 V-Network	Rohde & Schwarz	ESH3-Z6	892 563/007
A052	ESH3-Z6 V-Network	Rohde & Schwarz	ESH3-Z6	892 563/008
A254	WG 14 Microwave Horn	Flann Microwave	14240-20	139
A428	WG 12 horn	Flann	12240-20	134
A429	WG 16 horn	Flann	16240-20	561
A430	WG 18 horn	Flann	18240-20	425
A436	WG 20 horn	Flann	20240-20	330
A517	50 ohm 5W Load	Narda	370 BNF	N/A
A553	Bi-log Antenna	Chase	CBL6111A	1593
C1059	Cable	Rosenberger	1	1
C1083	Rosenberger	Rosenberger	001	2799
C300	Cable	Rosenberger	UFA 210A-1-0590-50x50	2683
C321	Cable	Rosenberger	UFA 210A-1-0788-50x50	96A0122
G087	PSU	Thurlby Thandar	CPX200	100701
M069	ESMI Spectrum Analyser / Receiver	Rohde & Schwarz	ESMI	829 808/007 (DU) / 827 063/008 (RU)
M1099	Load DC-18GHz	Narda	370 BNF	DC-18GHz
M244	Thermometer/Barometer/Hygrometer	Oregan Scientific	BA 116	None

Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

**Test Equipment Used for Testing at Basingstoke (Continued)**

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
S011	D.C. PSU	INSTEK	PR-3010H	9401270
S215	Site 15	RFI	15	
S507	PSU	Weir	4000	988670/667
S509	Turntable controller	British Turntables	RH351	3510018

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

---



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

---

## **Appendix 2. Test Configuration Drawings**

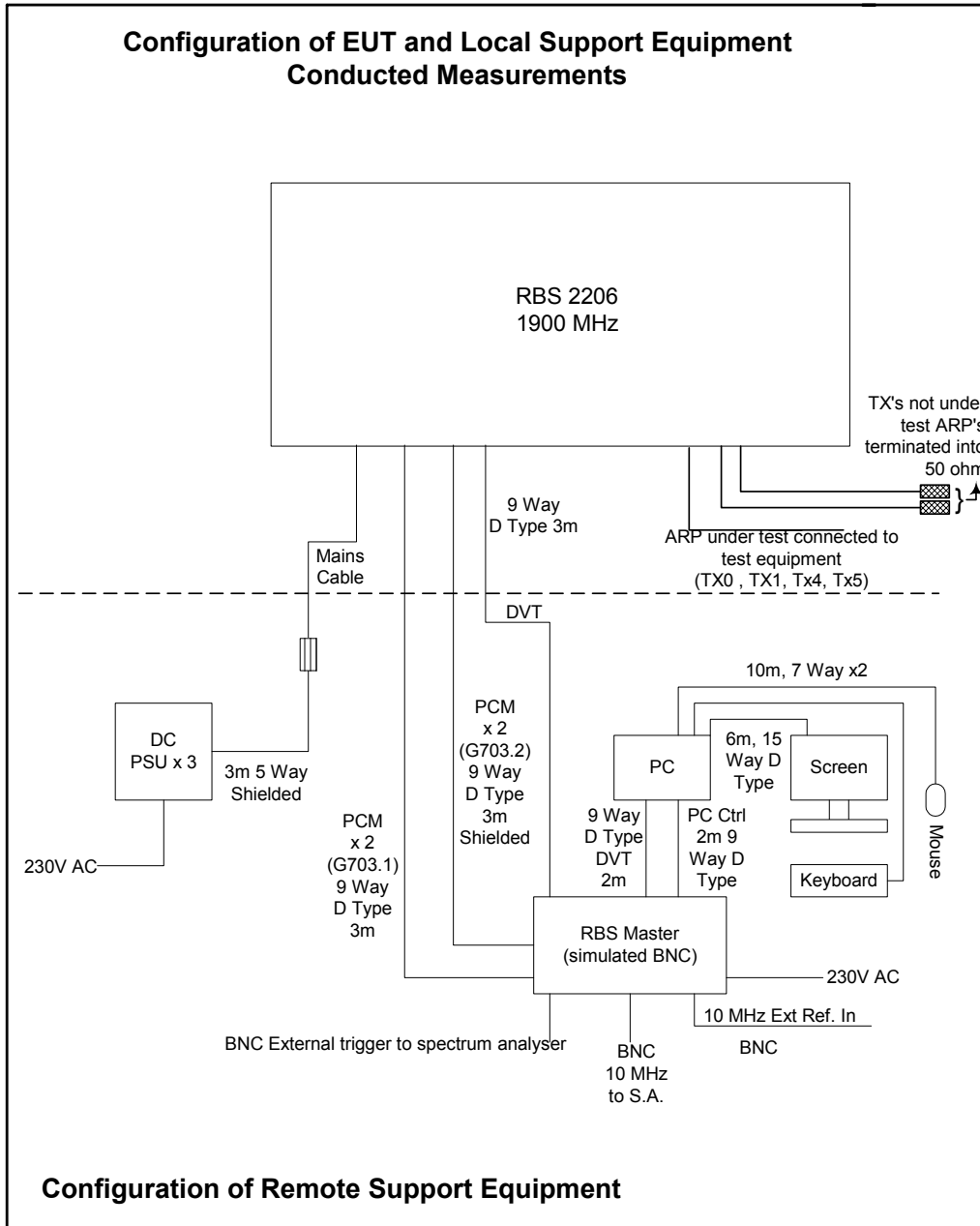
This Appendix contains the following drawings:

<b>Drawing Reference Number</b>	<b>Title</b>
DRG\46053JD01\001	Schematic diagram of the EUT, support equipment and interconnecting cables used for the conducted measurements in Mölndal.
DRG\46053JD01\002	Schematic diagram of the EUT, support equipment and interconnecting cables used for testing in Basingstoke.

---

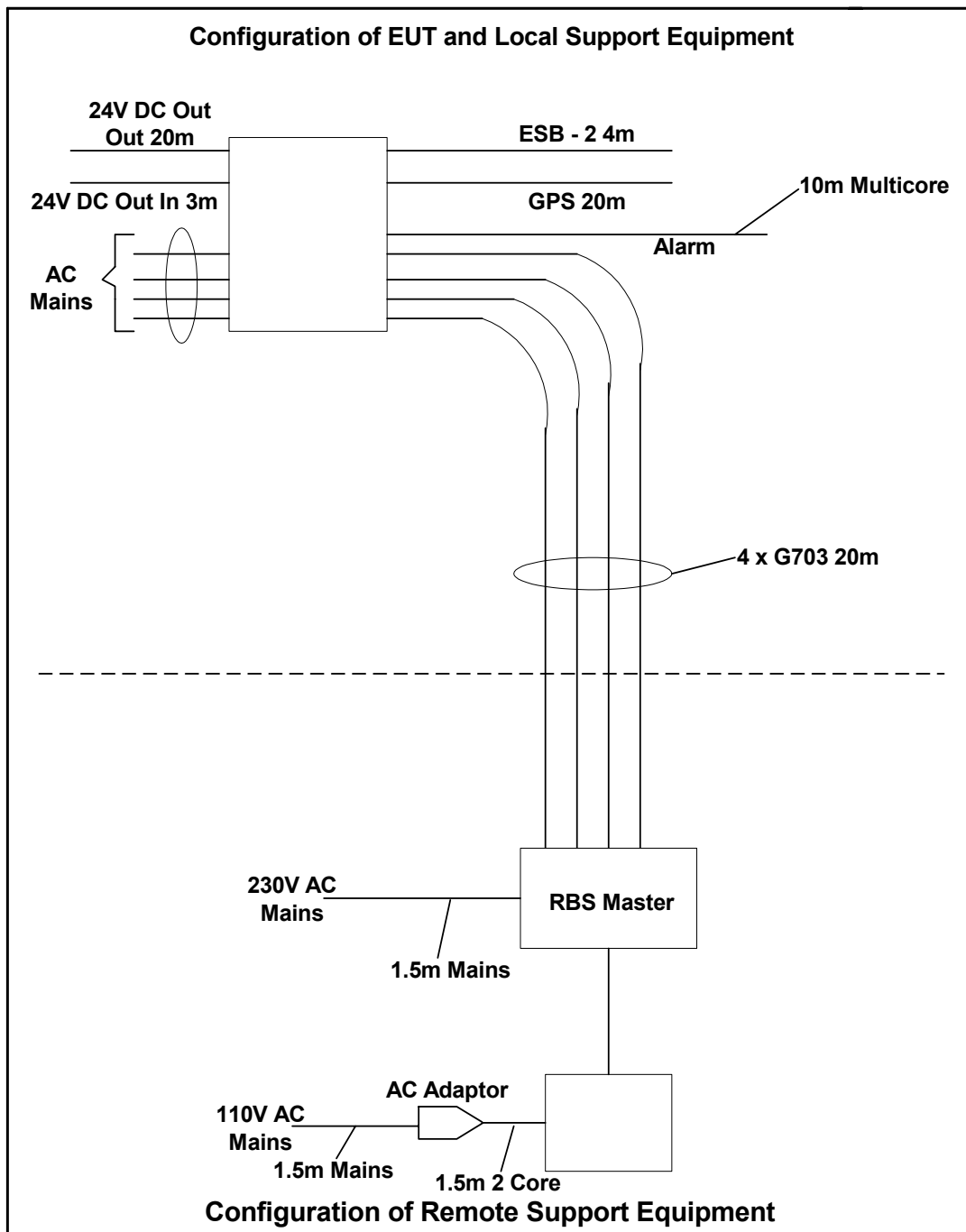
Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

DRG\46053JD01\001



Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)  
To: FCC Part 24: 2003

DRG\46053JD01\002



**RADIO FREQUENCY INVESTIGATION LTD.**

**TEST REPORT**

**S.No. RFI/MPTB2/RP46053JD01A**

**Page 156 of 156**

**Issue Date: 13 May 2004**

**Test Of: Ericsson AB.  
RBS 2206 1900 MHz (GMSK)**  
**To: FCC Part 24: 2003**

---

This page has been left intentionally blank.

---