

**GSM TEST REPORT  
FROM  
RFI GLOBAL SERVICES LTD**

Test of: Ericsson AB  
RBS 2308 1900 MHz

To: FCC Part 24: 2005

**Test Report Serial No:**  
RFI/MPTE1/RP71622JD11A

This Test Report Is Issued Under The Authority  
Of Andrew Brown, Operations Manager:



**Tested By: Bernie Fuller**



**Checked By: Michael Derby**



**Report Copy No: PDF01**

**Issue Date: 16 August 2006**

**Test Dates: 24 July 2006 to 28 July 2006**

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Registered in England and Wales. Company number: 2117901

**RFI GLOBAL SERVICES LTD**

**TEST REPORT**

**S.No. RFI/MPTE1/RP71622JD11A**

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## 1. Client Information

<b>Company Name:</b>	Ericsson AB
<b>Address:</b>	Lindholmspiren 11 417 56 Göteborg Sweden
<b>Contact Name:</b>	Mr Anders Frick

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

The following information has been supplied by the client:

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

**FCC ID: B5KCKRC16184-3**

No.	Unit	Model Number	Serial Number	Revision Number
1	RBS 2308 1900MHz	KRC161 84/3	AE52960104	R7C

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

No.	Unit	Model Number	Serial Number	Revision Number
2	RBS 2308 1900MHz	KRC161 84/3	AE52960102	R7C

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

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

Unit	Model Number	Serial Number	Revision Number
Mounting Base	SEB 112 1133/3	B340570458	R3C
Mounting Base PSU	ROA 117 4776/1	(S)B340550634	R2C
IXU-21	BOE 602 15/2	AE52829849	R5C
RRU-M19	KRC161 84/3	AE52960104	R7C
Digital Radio Access Board 1	ROA 117 5125/1	(S)AE52959422	R2A
Digital Radio Access Board 2	ROA 117 5125/1	(S)AE52961114	R2A
Duplex Filter 1	KRF 102 233/1	T89M401246	R2A
Duplex Filter 2	KRF 102 233/1	T89M401247	R2A
PSU	BML 15123/2	(S)BR41044608	R2B
Power Interface Board	ROA 117 4775/1	(S)B340606922	R2B
Y Interface Board	ROA 117 4831/1	(S)B340606335	R3A
Radio Interface Board	ROA 117 4799/1	B340599214	R3B

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**Hardware List - Radiated Measurements at Basingstoke**

Unit	Model Number	Serial Number	Revision Number
IXU-21	BOE 602 15/2	AE52831996	R5C
Mounting Base	SEB 112 1133/2	B340570454	R3C
RRU-M19	KRC 161 84/3	AE52960102	R7C

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## 2.2. Description Of EUT

The equipment under test is a RBS 2308 GMSK/8PSK base transceiver station 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>	115V AC / -48V 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 2 (G703) TIB – Synchronisation Interface Mains 115 V AC Input -48V DC Supply DVT – RBS Master Control RF x 2		
<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>
	EDGE/GMSK	512	1930.2
	EDGE/GMSK	661	1960.0
	EDGE/GMSK	810	1989.8
<b>Receive Frequency Range</b>	1850 MHz to 1910 MHz		
<b>Declared Maximum Power Output</b>	33.5 dBm		

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## **2.5. Support Equipment – Lindholmen**

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

<b>Description:</b>	BSC Simulator
<b>Brand Name:</b>	RBS Master 2
<b>Model Name or Number:</b>	LPY 107 1007/1 R1F/A
<b>Serial Number:</b>	0000000157
<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>	G703-2 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



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**Support Equipment – Lindholmen (Continued)**

Description:	Computer
Brand Name:	Compaq
Model Name or Number:	Evo
Serial Number:	CZC3230BP2
FCC ID Number:	Not applicable
Cable Length And Type:	1.5 m, 9 Pin D Type
Connected to Port:	PC DVT
Cable Length And Type:	1.5 m, 9 Pin D Type
Connected to Port:	PC Ctrl
Cable Length And Type:	2 m, Mains Cable
Connected to Port:	AC Input
Cable Length And Type:	0.3 m, GPIB
Connected to Port:	IEEE Bus
Cable Length And Type:	4 m, 8 Core
Connected to Port:	Network
Cable Length And Type:	5 m, 7 Way
Connected to Port:	Mouse
Cable Length And Type:	5 m, 7 Way
Connected to Port:	Keyboard
Cable Length And Type:	5 m, 25 Pin D Type
Connected to Port:	TIB

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## **2.6. Support Equipment – Basingstoke**

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

<b>Description:</b>	Laptop PC
<b>Brand Name:</b>	Compaq
<b>Model Name or Number:</b>	EVO N610c
<b>Serial Number:</b>	CNU3390RFR
<b>Cable Length And Type:</b>	None Stated
<b>Connected to Port:</b>	RBS Master

<b>Description:</b>	RBS Master 2
<b>Brand Name:</b>	Ericsson
<b>Model Name or Number:</b>	RBS Master 2
<b>Serial Number:</b>	0000000161
<b>Cable Length And Type:</b>	None Stated
<b>Connected to Port:</b>	PCM Line

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

#### **3.1 Test specification**

<b>Reference:</b>	FCC Part 24: 2005 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: 2005
<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.

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### **3.2 Methods and Procedures**

The methods and procedures used were as detailed in:

47CFR: Part 24 (2005)

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

47CFR: Part 2 (2005)

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

ANSI/TIA-603-C-2004

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 (2003)

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 (2004)

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

ANSI C63.7 (2005)

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

CISPR 16-1-1 (2004)

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

CISPR 16-1-4 (2005)

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

### **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.

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

None.

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

### **5.1. Operating Conditions**

During testing at Lindholmen, the EUT was powered by mains supply 115V AC at the RBS 2308. The EUT was tested in a normal laboratory environment.

During testing at Basingstoke, the EUT was powered by mains supply 115V AC and -48V DC supply at the RBS 2308. The EUT was tested in a normal laboratory environment.

### **5.2. Operating Modes**

#### Conducted measurements at Lindholmen.

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

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

Frequency Stability testing was performed on TX0 and TX2. Modulation Characteristics was performed on TX1 and TX3.

Carrier Output Power, Band Edges, Occupied Bandwidth and Spurious Emissions were tested on all 4 transceivers.

All transmitters TX0, TX1, TX2 and TX3 are identical in all respects. Testing was performed on the specified transmitters 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.

#### Radiated emissions measurements at Basingstoke .

The base station was set to transmit on two channels, using GMSK and EDGE bottom and middle channels, at full power:

Tx-0 = Bottom Channel GMSK Modulation.  
Tx-1 = Middle Channel GMSK Modulation.  
Tx-2 = Bottom Channel EDGE Modulation.  
Tx-3 = Middle Channel EDGE Modulation.

The reason for choosing this configuration was that it has been defined by the customer as being typical of normal use and likely to be a worst case with regard to EMC.

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

The EUT was tested in the following configuration:

As a standalone 4 TRX RBS 2308 base transceiver station.

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## 6. Summary Of Test Results

Range Of Measurements	Specification Reference	Port Type	Compliance Status
Transmitter Carrier Output Power	Part 2 of CFR 47: 2005, Section 2.1046(a)	Antenna Terminals	Complied
Transmitter Modulation Characteristics	Part 2 of CFR 47: 2005, Section 2.1047	Antenna Terminals	Complied
Transmitter Frequency Stability (Temperature Variation)	Part 2 & 24 of CFR 47: 2005, Section 2.1055/24.235	Antenna Terminals	Complied
Transmitter Frequency Stability (Voltage Variation)	Part 2 & 24 of CFR 47: 2005, Section 2.1055/24.235	Antenna Terminals	Complied
Transmitter Occupied Bandwidth	Part 2 & 24 of CFR 47: 2005 Sections 2.1049/24.238	Antenna Terminals	Complied
Transmitter Conducted Out of Band Emissions	Part 2 & 24 of CFR 47: 2005 Sections 2.1051/24.238	Antenna Terminals	Complied
Transmitter Conducted Inband Intermodulation	Part 2 & 24 of CFR 47: 2005 Sections 2.1051/24.238	Antenna Terminals	Complied
Transmitter Conducted Emissions at Band Edges	Part 2 & 24 of CFR 47: 2005 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: 2005 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, Lindholmspiren 11, 417 56 Göteborg, Sweden and RFI-Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, England.

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## **7. Measurements, Examinations And Derived Results**

### **7.1. General Comments**

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



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**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-603-C.

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

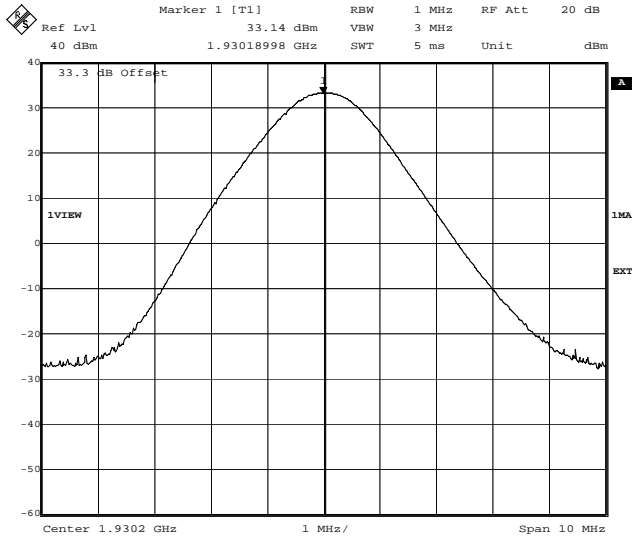
**8PSK (P0 = 30.2dBm) – TX0:**

**Results:**

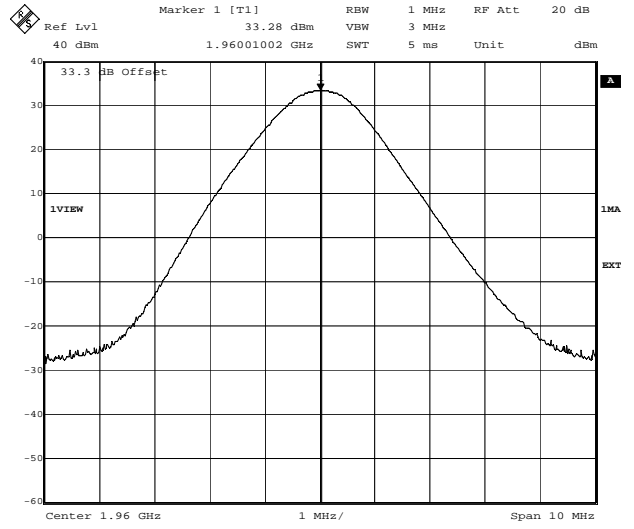
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.18998	33.1
Middle	1960.01002	33.3
Top	1989.76994	33.3

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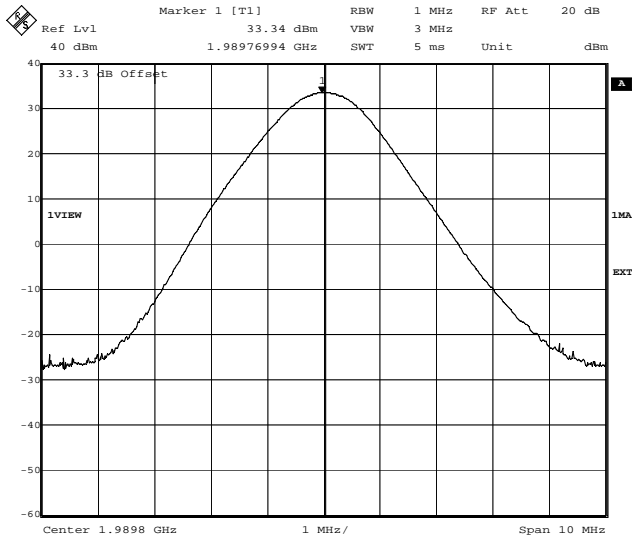
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH512. Output Power. 8PSK TRX0. FCC 2.1046(a).  
 Date: 24.JUL.2006 12:48:16



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH661. Output Power. 8PSK TRX0. FCC 2.1046(a).  
 Date: 24.JUL.2006 12:46:30



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH810. Output Power. 8PSK TRX0. FCC 2.1046(a).  
 Date: 24.JUL.2006 12:45:01

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

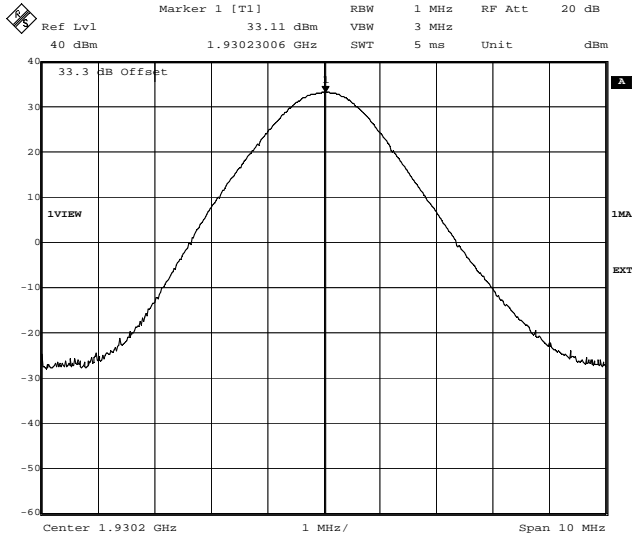
**8PSK (P0 = 30.2dBm) – TX1:**

**Results:**

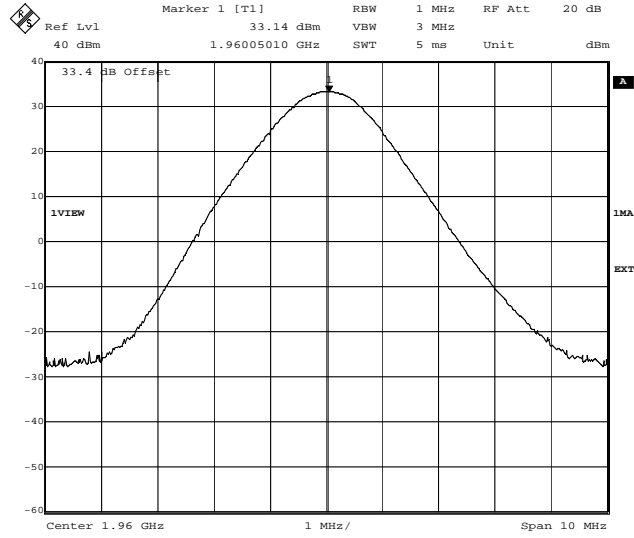
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.23006	33.1
Middle	1960.05010	33.1
Top	1989.72986	33.3

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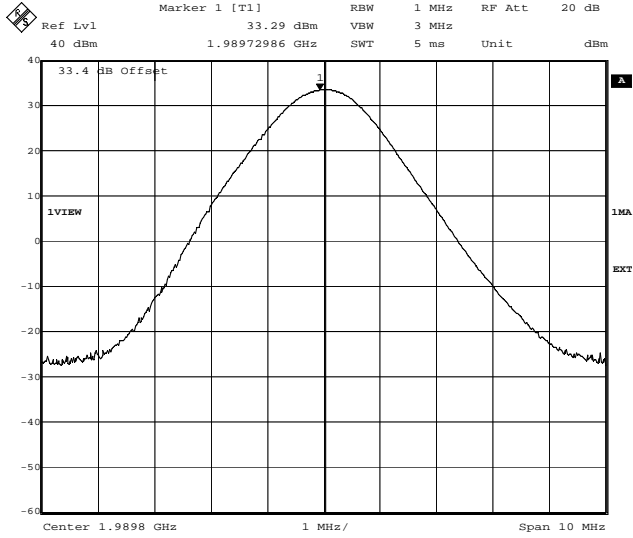
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
Comment A: CH512. Output Power. 8PSK TRX1. FCC 2.1046(a).  
Date: 24.JUL.2006 13:47:46



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
Comment A: CH661. Output Power. 8PSK TRX1. FCC 2.1046(a).  
Date: 24.JUL.2006 13:50:14



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
Comment A: CH810. Output Power. 8PSK TRX1. FCC 2.1046(a).  
Date: 24.JUL.2006 13:51:53

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

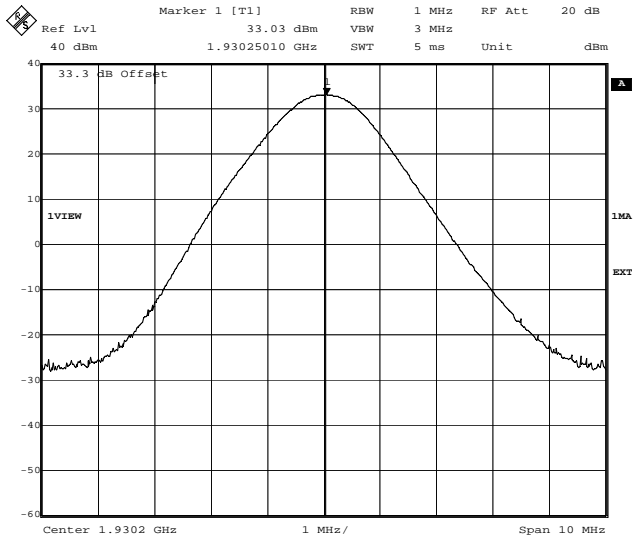
**8PSK (P0 = 30.2dBm) – TX2:**

**Results:**

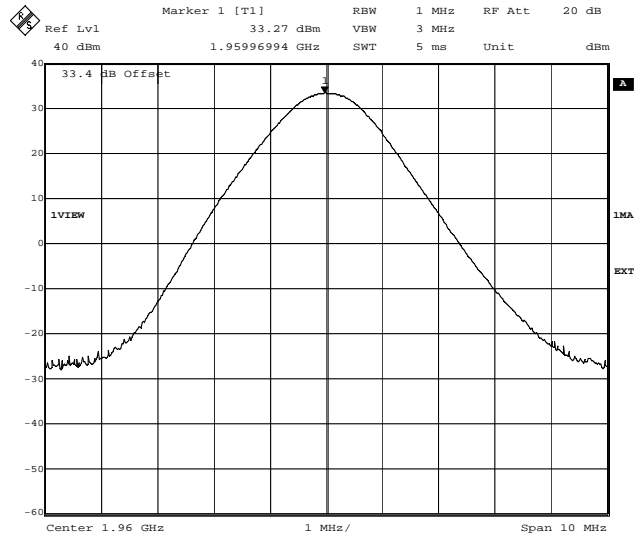
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.25010	33.0
Middle	1959.96994	33.3
Top	1989.78998	33.3

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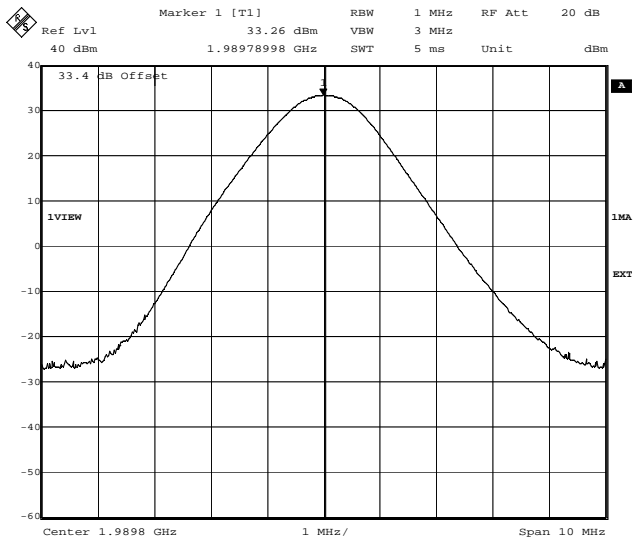
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH512. Output Power. 8PSK TRX2. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:16:52



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH661. Output Power. 8PSK TRX2. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:18:21



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH810. Output Power. 8PSK TRX2. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:19:56

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

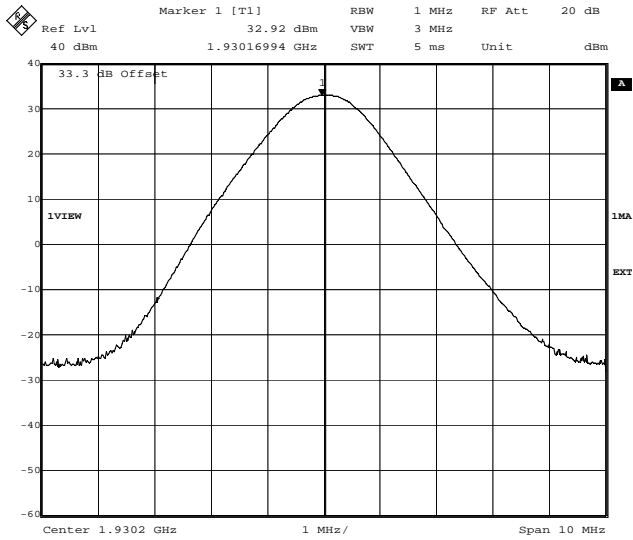
**8PSK (P0 = 30.2dBm) – TX3:**

**Results:**

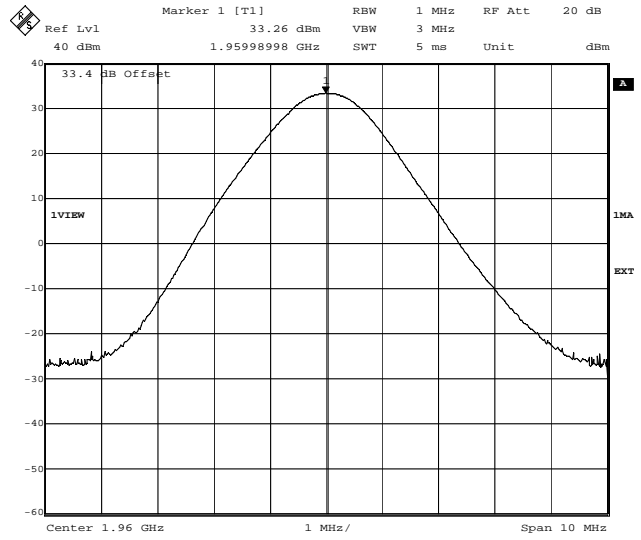
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.16994	32.9
Middle	1959.98998	33.3
Top	1989.74990	33.3

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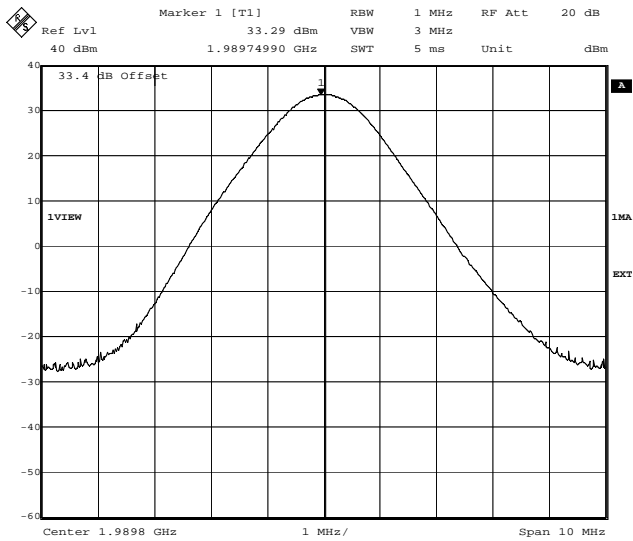
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH512. Output Power. 8PSK TRX3. FCC 2.1046(a).  
 Date: 24.JUL.2006 15:02:03



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH661. Output Power. 8PSK TRX3. FCC 2.1046(a).  
 Date: 24.JUL.2006 15:03:37



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH810. Output Power. 8PSK TRX3. FCC 2.1046(a).  
 Date: 24.JUL.2006 15:04:44



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

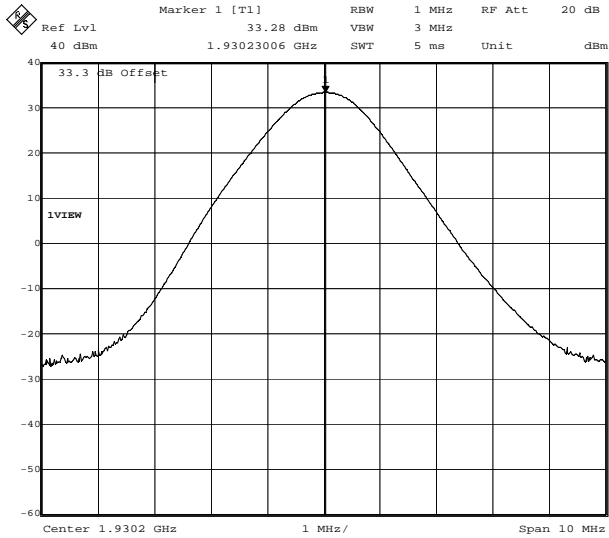
**GMSK (P0 = 33.5dBm) – TX0:**

**Results:**

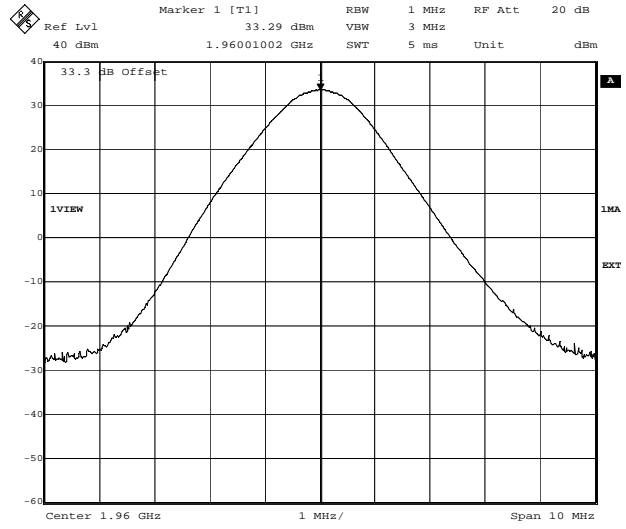
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.23006	33.3
Middle	1960.01002	33.3
Top	1989.78998	33.4

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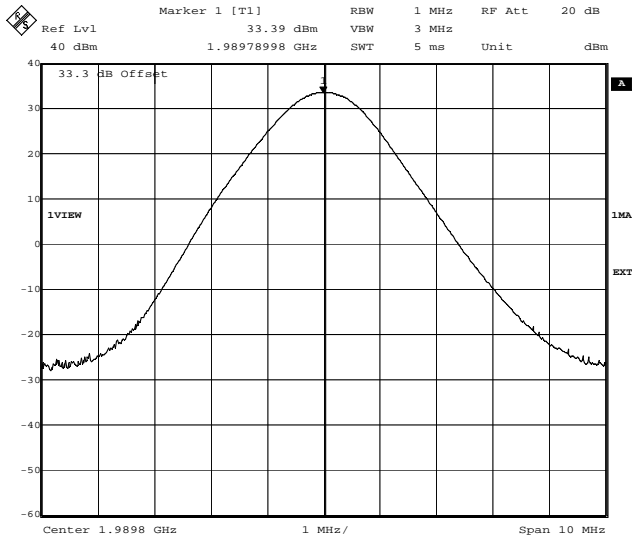
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH512. Output Power. GMSK TRX0. FCC 2.1046(a).  
 Date: 24.JUL.2006 10:55:05



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH661. Output Power. GMSK TRX0. FCC 2.1046(a).  
 Date: 24.JUL.2006 12:40:56



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH810. Output Power. GMSK TRX0. FCC 2.1046(a).  
 Date: 24.JUL.2006 12:42:34

Test Of: Ericsson AB  
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**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**

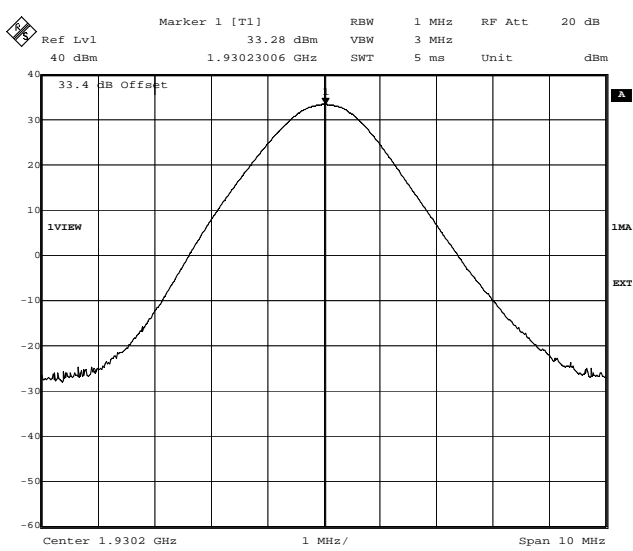
**GMSK (P0 = 33.5dBm) – TX1:**

**Results:**

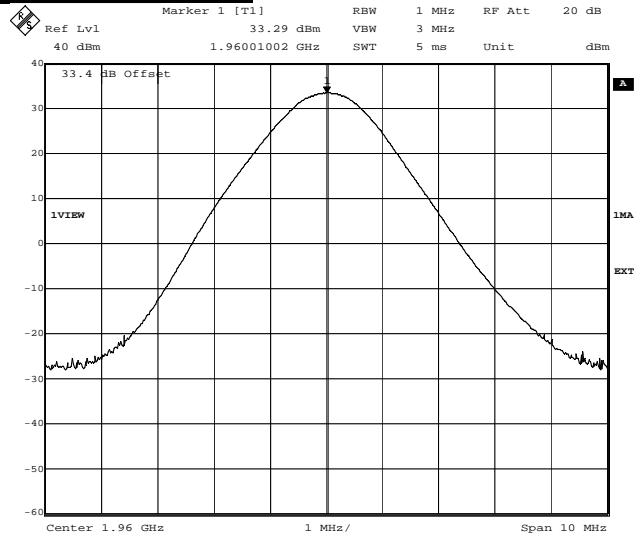
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.23006	33.3
Middle	1960.01002	33.3
Top	1989.78998	33.4

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

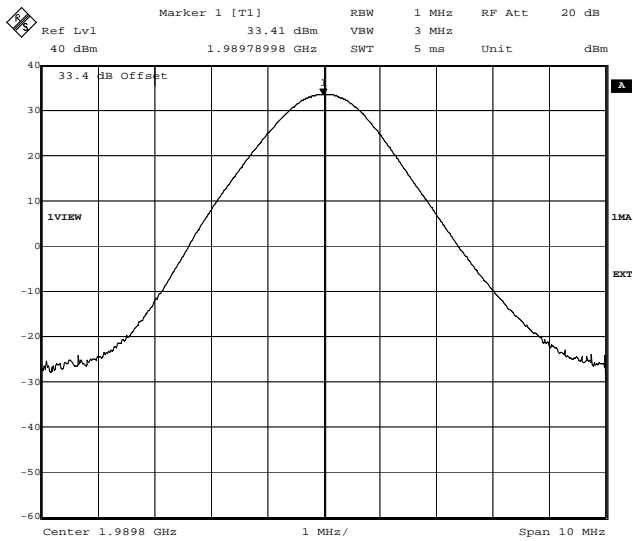
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH512. Output Power. GMSK TRX1. FCC 2.1046(a).  
 Date: 24.JUL.2006 13:43:03



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH661. Output Power. GMSK TRX1. FCC 2.1046(a).  
 Date: 24.JUL.2006 13:44:11



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH810. Output Power. GMSK TRX1. FCC 2.1046(a).  
 Date: 24.JUL.2006 13:45:28

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

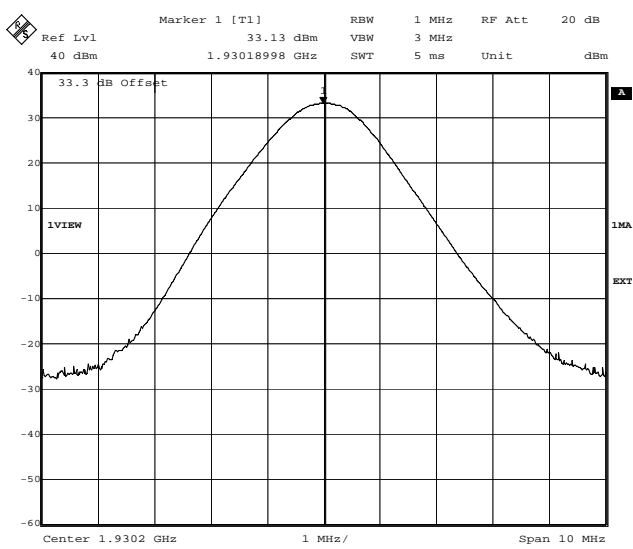
**GMSK (P0 = 33.5dBm) – TX2:**

**Results:**

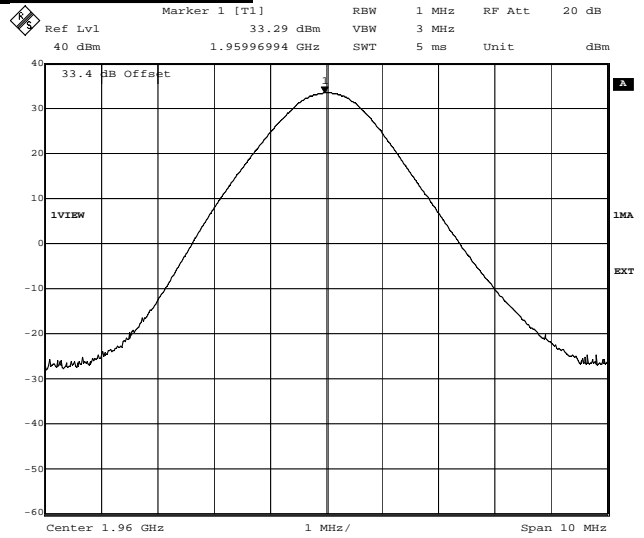
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.18998	33.1
Middle	1959.96994	33.3
Top	1989.81002	33.3

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

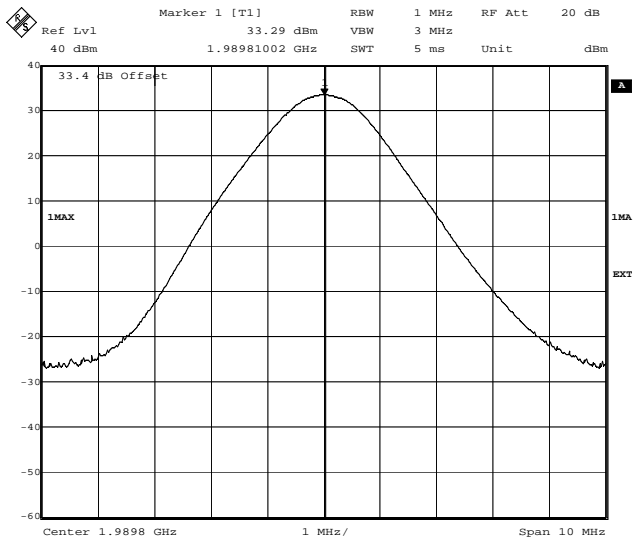
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH512. Output Power. GMSK TRX2. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:10:24



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH661. Output Power. GMSK TRX2. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:11:56



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH810. Output Power. GMSK TRX2. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:13:21

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

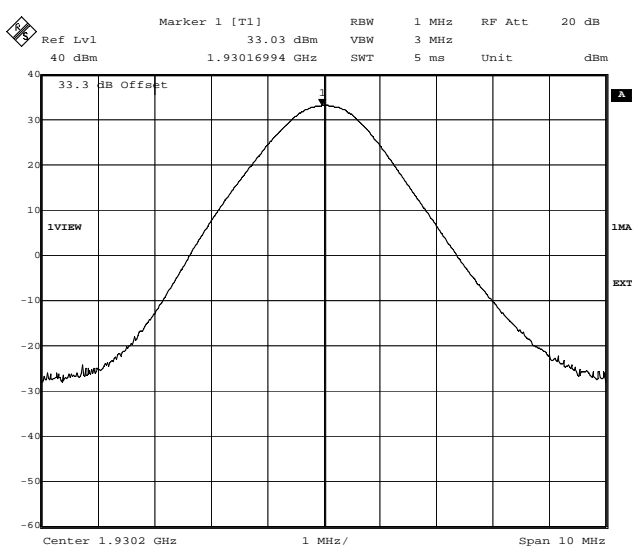
**GMSK (P0 = 33.5dBm) – TX3:**

**Results:**

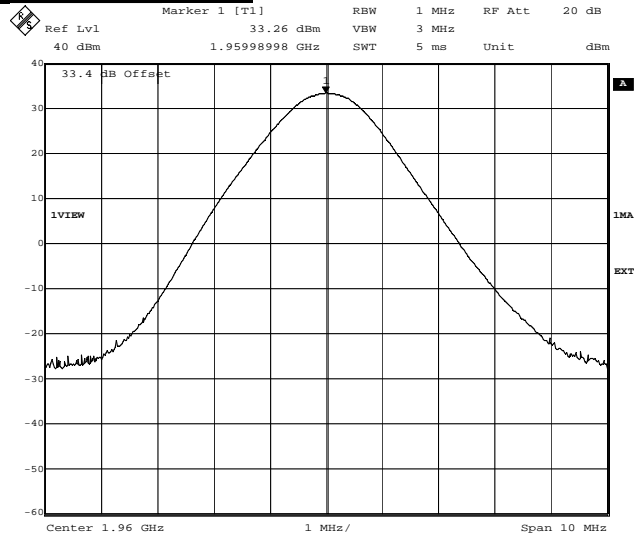
Channel	Frequency (MHz)	Level (dBm)
Bottom	1930.16994	33.0
Middle	1959.98998	33.3
Top	1989.76994	33.4

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

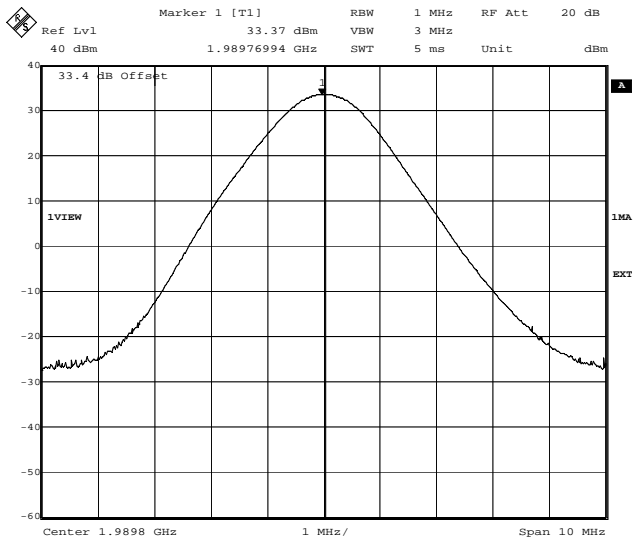
**Transmitter Carrier Output Power: Section 2.1046 (a) (Continued)**



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH512. Output Power. GMSK TRX3. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:58:43



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH661. Output Power. GMSK TRX3. FCC 2.1046(a).  
 Date: 24.JUL.2006 14:59:37



Title: Testing for Ericsson AB. RBS2308 1900MHz. 71622JD11.  
 Comment A: CH810. Output Power. GMSK TRX3. FCC 2.1046(a).  
 Date: 24.JUL.2006 15:00:27



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

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

7.3.2. Tests were performed to identify the modulation characteristics in accordance with FCC Part 2.1047, with reference to TIA/EIA-603-C.

7.3.3. Measurements were made at the ARP output connectors.

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

7.3.5. Testing was performed on the middle channel only.

GMSK	Phase Error ( $^{\circ}$ Peak)	
	Tx1	Tx3
Phase Error	7.33	6.65
Max	7.33	

8PSK	EVM (% RMS)	
	Tx1	Tx3
EVM	2.89	2.43
Max EVM	2.89	

8PSK	Origin Offset (dB)	
	Tx1	Tx3
Origin Offset	38.6	38.5
Max OO	38.5	

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

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

7.4.2. Measurements were performed to determine the frequency stability of the fundamental emission from the EUT, when subjected to variation of ambient temperature.

7.4.3. Measurements were made at the ARP output connectors.

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

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

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

7.4.7. All transceivers were active and evenly spaced out in the frequency band to simulate worst case. The measured transceiver was set up to transmit on 1 timeslot and testing was performed over 100 bursts.

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

#### Results

Mode: 8PSK – TX0

Channel: 512 (1930.2MHz)

Temperature (°C)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1930.200019	1930	19	0.200019	Complied
-20	1930.199968	1930	-32	0.199968	Complied
-10	1930.199974	1930	-26	0.199974	Complied
0	1930.199973	1930	-27	0.199973	Complied
10	1930.199977	1930	-23	0.199977	Complied
20	1930.199973	1930	-27	0.199973	Complied
30	1930.199985	1930	-15	0.199985	Complied
40	1930.199978	1930	-22	0.199978	Complied
50	1930.199978	1930	-22	0.199978	Complied

Mode: 8PSK – TX0

Channel: 810 (1989.8 MHz)

Temperature (°C)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1989.799973	1990	-27	0.200027	Complied
-20	1989.799965	1990	-35	0.200035	Complied
-10	1989.799972	1990	-28	0.200028	Complied
0	1989.799974	1990	-26	0.200026	Complied
10	1989.799974	1990	-26	0.200026	Complied
20	1989.799973	1990	-27	0.200027	Complied
30	1989.799978	1990	-22	0.200022	Complied
40	1989.799979	1990	-21	0.200021	Complied
50	1989.799975	1990	-25	0.200025	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

**Mode: GMSK – TX0**

**Channel: 512 (1930.2 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1930.200018	1930	18	0.200018	Complied
-20	1930.199964	1930	-36	0.199964	Complied
-10	1930.199969	1930	-31	0.199969	Complied
0	1930.199973	1930	-27	0.199973	Complied
10	1930.199977	1930	-23	0.199977	Complied
20	1930.199973	1930	-27	0.199973	Complied
30	1930.199983	1930	-17	0.199983	Complied
40	1930.199971	1930	-29	0.199971	Complied
50	1930.199975	1930	-25	0.199975	Complied

**Mode: GMSK – TX0**

**Channel: 810 (1989.8 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1989.800016	1990	16	0.199984	Complied
-20	1989.799962	1990	-38	0.200038	Complied
-10	1989.799971	1990	-29	0.200029	Complied
0	1989.799971	1990	-29	0.200029	Complied
10	1989.799972	1990	-28	0.200028	Complied
20	1989.799971	1990	-29	0.200029	Complied
30	1989.799985	1990	-15	0.200015	Complied
40	1989.799973	1990	-27	0.200027	Complied
50	1989.799979	1990	-21	0.200021	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Mode: 8PSK – TX2**

**Channel: 512 (1930.2 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1930.200040	1930	40	0.200040	Complied
-20	1930.199972	1930	-28	0.199972	Complied
-10	1930.199972	1930	-28	0.199972	Complied
0	1930.199978	1930	-22	0.199978	Complied
10	1930.199980	1930	-20	0.199980	Complied
20	1930.199985	1930	-15	0.199985	Complied
30	1930.200014	1930	14	0.200014	Complied
40	1930.199983	1930	-17	0.199983	Complied
50	1930.199981	1930	-19	0.199981	Complied

**Mode: 8PSK – TX2**

**Channel: 810 (1989.8 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1989.800040	1990	40	0.199960	Complied
-20	1989.799972	1990	-28	0.200028	Complied
-10	1989.799973	1990	-27	0.200027	Complied
0	1989.799977	1990	-23	0.200023	Complied
10	1989.799984	1990	-16	0.200016	Complied
20	1989.799985	1990	-15	0.200015	Complied
30	1989.800014	1990	14	0.199986	Complied
40	1989.799980	1990	-20	0.200020	Complied
50	1989.799981	1990	-19	0.200019	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

**Mode: GMSK – TX2**

**Channel: 512 (1930.2 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1930.200039	1930	39	0.200039	Complied
-20	1930.199970	1930	-30	0.199970	Complied
-10	1930.199975	1930	-25	0.199975	Complied
0	1930.199980	1930	-20	0.199980	Complied
10	1930.199980	1930	-20	0.199980	Complied
20	1930.199981	1930	-19	0.199981	Complied
30	1930.199985	1930	-15	0.199985	Complied
40	1930.199982	1930	-18	0.199982	Complied
50	1930.199980	1930	-20	0.199980	Complied

**Mode: GMSK – TX2**

**Channel: 810 (1989.8 MHz)**

Temperature (°C)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin (MHz)	Result
-30	1989.800041	1990	41	0.199959	Complied
-20	1989.799969	1990	-31	0.200031	Complied
-10	1989.799971	1990	-29	0.200029	Complied
0	1989.799980	1990	-20	0.200020	Complied
10	1989.799980	1990	-20	0.200020	Complied
20	1989.799981	1990	-19	0.200019	Complied
30	1989.799984	1990	-16	0.200016	Complied
40	1989.799977	1990	-23	0.200023	Complied
50	1989.799978	1990	-22	0.200022	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
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.

**Mode: 8PSK – TX0**

**Channel: 512 (1930.2 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1930.199976	1930	-24	0.199976	Complied
115	1930.199977	1930	-23	0.199977	Complied
132.25	1930.199973	1930	-27	0.199973	Complied

**Mode: 8PSK – TX0**

**Channel: 810 (1989.8 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1989.799965	1990	-35	0.200035	Complied
115	1989.799973	1990	-27	0.200027	Complied
132.25	1989.799975	1990	-25	0.200025	Complied

**Mode: GMSK – TX0**

**Channel: 512 (1930.2 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1930.199969	1930	-31	0.199969	Complied
115	1930.199973	1930	-27	0.199973	Complied
132.25	1930.199966	1930	-34	0.199966	Complied

**Mode: GMSK – TX0**

**Channel: 810 (1989.8 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1989.799966	1990	-34	0.200034	Complied
115	1989.799971	1990	-29	0.200029	Complied
132.25	1989.799971	1990	-29	0.200029	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

**Mode: 8PSK – TX2**

**Channel: 512 (1930.2 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1930.199981	1930	-19	0.199981	Complied
115	1930.199985	1930	-15	0.199985	Complied
132.25	1930.199982	1930	-18	0.199982	Complied

**Mode: 8PSK – TX2**

**Channel: 810 (1989.8 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1989.799986	1990	-14	0.200014	Complied
115	1989.799985	1990	-15	0.200015	Complied
132.25	1989.799985	1990	-15	0.200015	Complied

**Mode: GMSK – TX2**

**Channel: 512 (1930.2 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Lower Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1930.199982	1930	-18	0.199982	Complied
115	1930.199981	1930	-19	0.199981	Complied
132.25	1930.199982	1930	-18	0.199982	Complied

**Mode: GMSK – TX2**

**Channel: 810 (1989.8 MHz)**

Supply Voltage (Vac)	Measured Frequency (MHz)	Upper Band Edge limit (MHz)	Frequency Error (Hz)	Margin from Band Edge (MHz)	Result
97.75	1989.799979	1990	-21	0.200021	Complied
115	1989.799981	1990	-19	0.200019	Complied
132.25	1989.799978	1990	-22	0.200022	Complied



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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### **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.

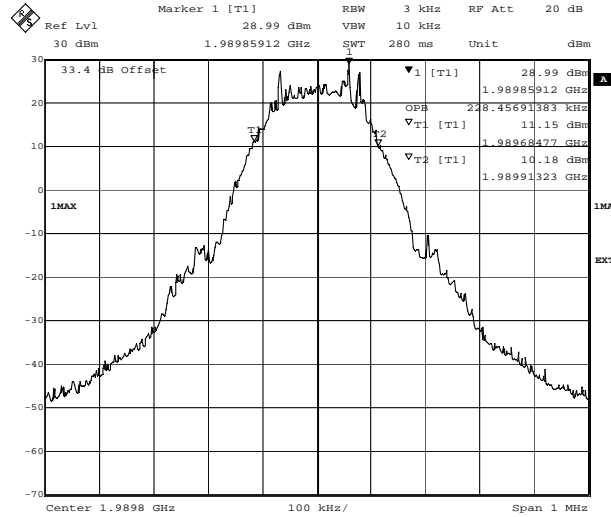
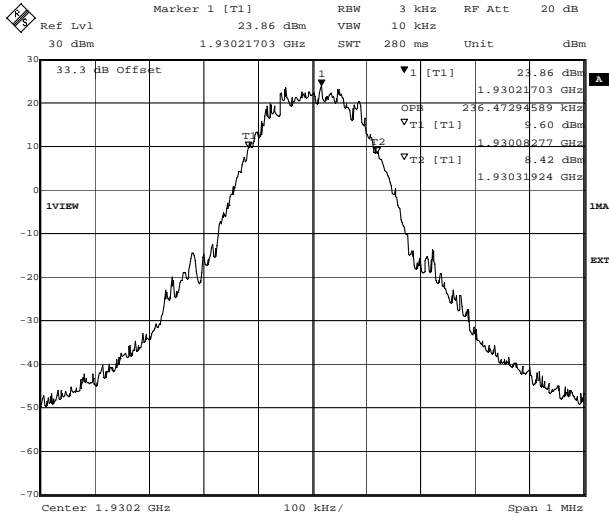
7.6.2. Tests were performed to identify the maximum bandwidth occupied by the fundamental frequency of the EUT.

#### **Results: 8PSK – TX0 to TX3**

TX	Channel	Frequency (MHz)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (kHz)
TX0	512	1930.21703	3	10	236.473
TX0	810	1989.85912	3	10	228.457
TX1	512	1930.13287	3	10	238.477
TX1	810	1989.85912	3	10	240.481
TX2	512	1930.27715	3	10	236.473
TX2	810	1989.85110	3	10	238.477
TX3	512	1930.24910	3	10	240.481
TX3	810	1989.85912	3	10	234.469

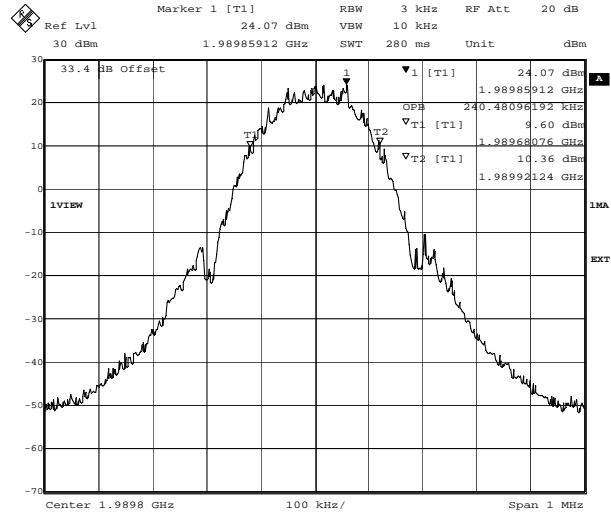
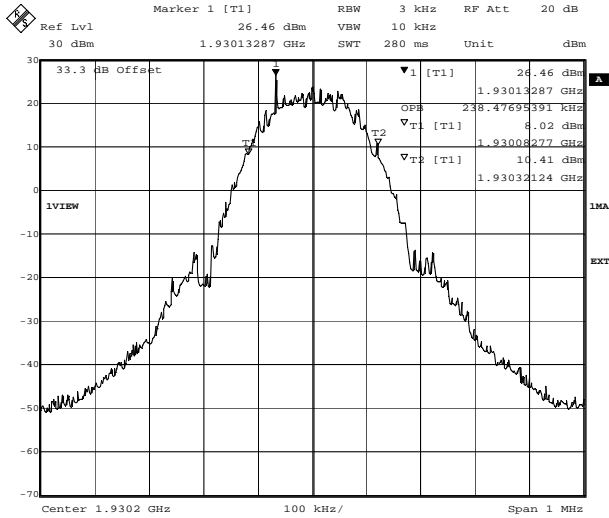
Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX0, FCC P art 2.1049  
 Date: 25.JUL.2006 11:27:43

Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX0, FCC P art 2.1049  
 Date: 25.JUL.2006 11:32:18

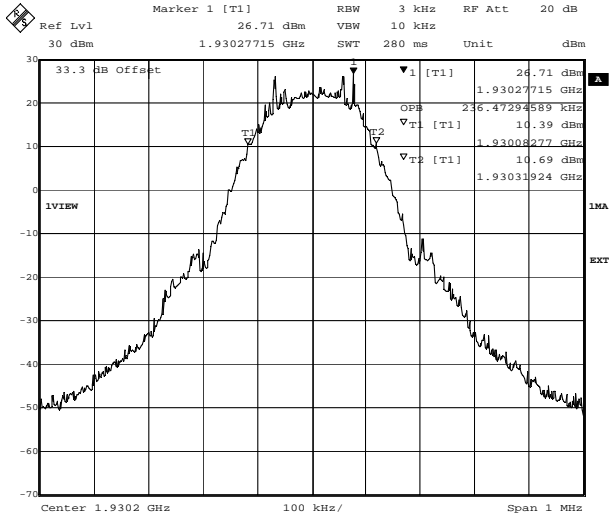


Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX1, FCC P art 2.1049  
 Date: 25.JUL.2006 13:40:12

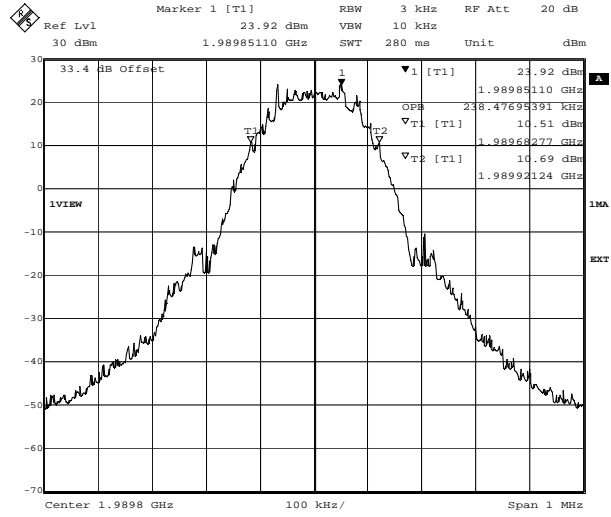
Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX1, FCC P art 2.1049  
 Date: 25.JUL.2006 13:43:13

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2003

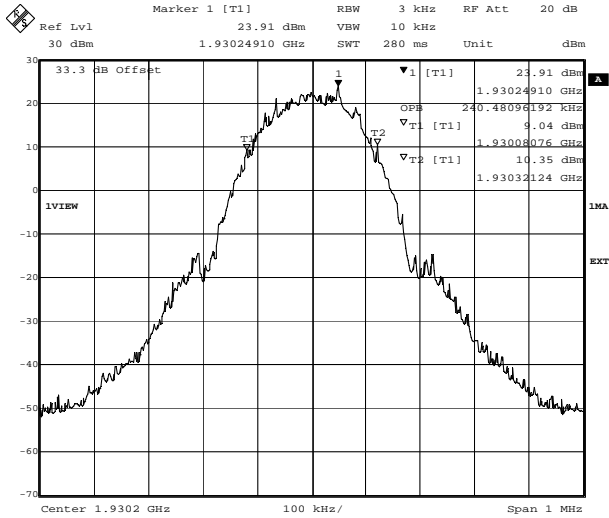
**Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)**



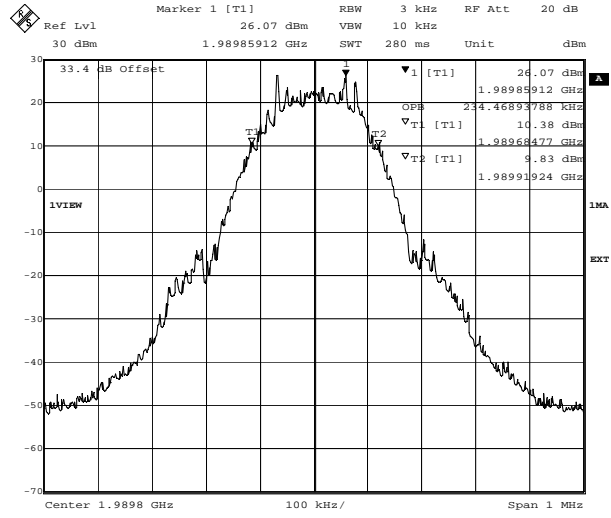
Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX2, FCC P art 2.1049  
 Date: 25.JUL.2006 14:43:01



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX2, FCC P art 2.1049  
 Date: 25.JUL.2006 14:45:53



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX3, FCC P art 2.1049  
 Date: 25.JUL.2006 15:19:50



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +30.2dBm, OBW 99% Occupied Bandwidth, 8PSK TX3, FCC P art 2.1049  
 Date: 25.JUL.2006 15:22:51

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

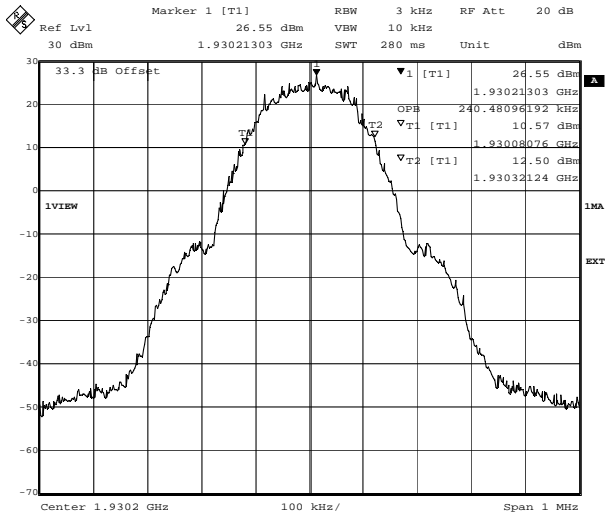
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**Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)****Results: GMSK – TX0 to TX3**

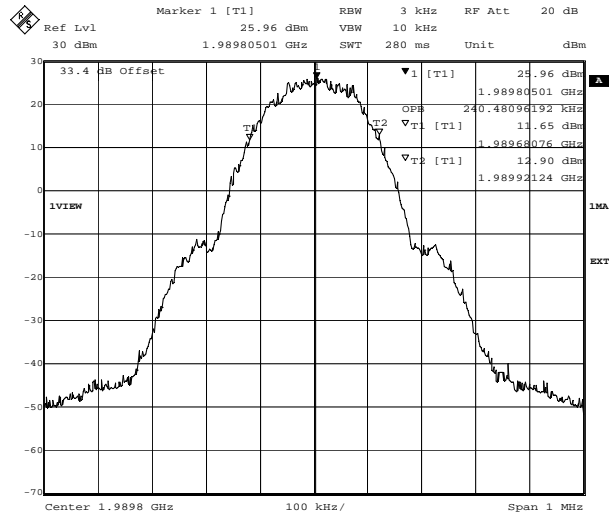
TX	Channel	Frequency (MHz)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (kHz)
TX0	512	1930.21303	3	10	240.481
TX0	810	1989.80501	3	10	240.481
TX1	512	1930.21904	3	10	240.481
TX1	810	1989.77896	3	10	236.473
TX2	512	1930.21904	3	10	244.489
TX2	810	1989.81904	3	10	240.481
TX3	512	1930.21904	3	10	240.481
TX3	810	1989.77094	3	10	238.477

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2003

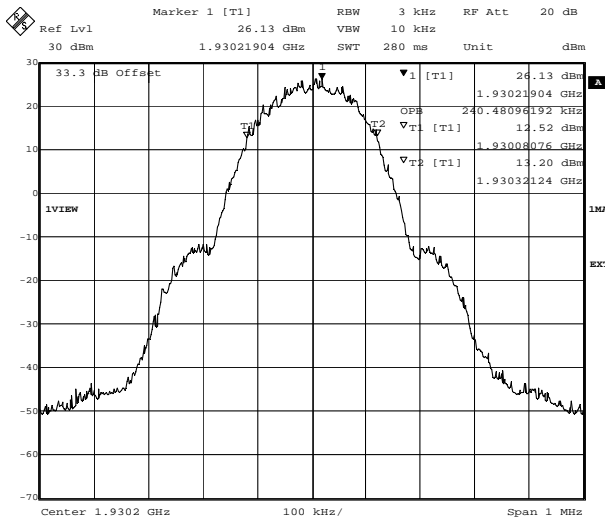
**Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)**



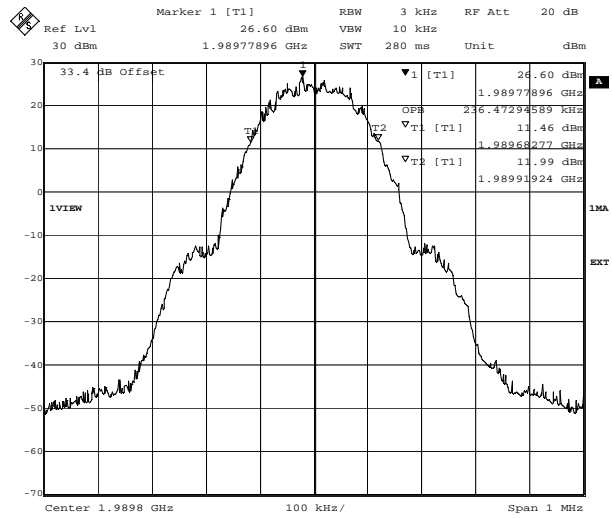
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512. +33.5dBm. OBW 99% Occupied Bandwidth. GMSK TX0. FCC P art 2.1049  
 Date: 25.JUL.2006 11:09:48



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810. +33.5dBm. OBW 99% Occupied Bandwidth. GMSK TX0. FCC P art 2.1049  
 Date: 25.JUL.2006 11:00:40



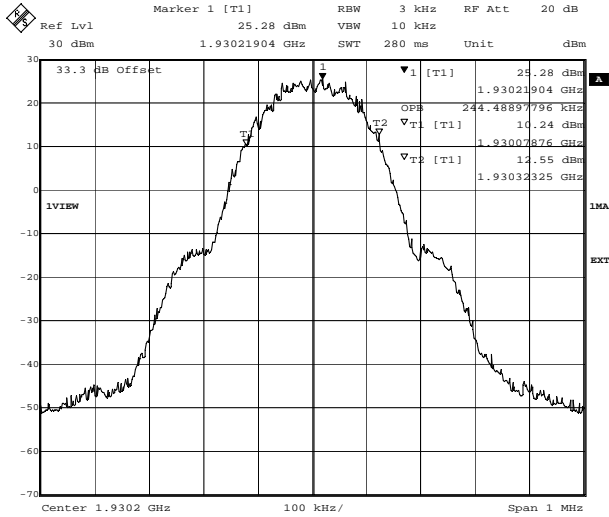
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512. +33.5dBm. OBW 99% Occupied Bandwidth. GMSK TX1. FCC P art 2.1049  
 Date: 25.JUL.2006 13:20:50



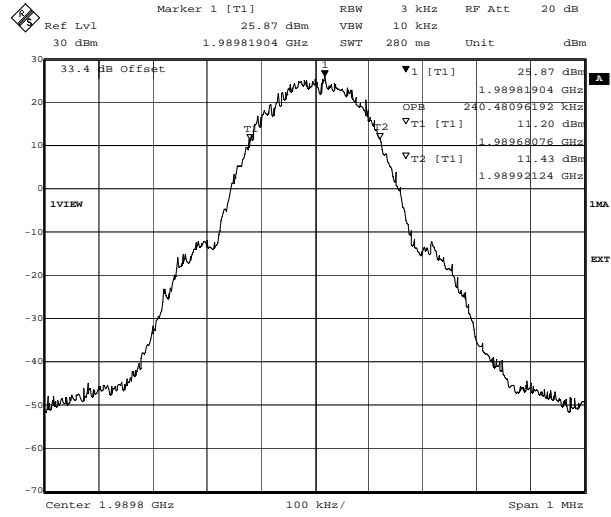
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810. +33.5dBm. OBW 99% Occupied Bandwidth. GMSK TX1. FCC P art 2.1049  
 Date: 25.JUL.2006 13:30:14

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

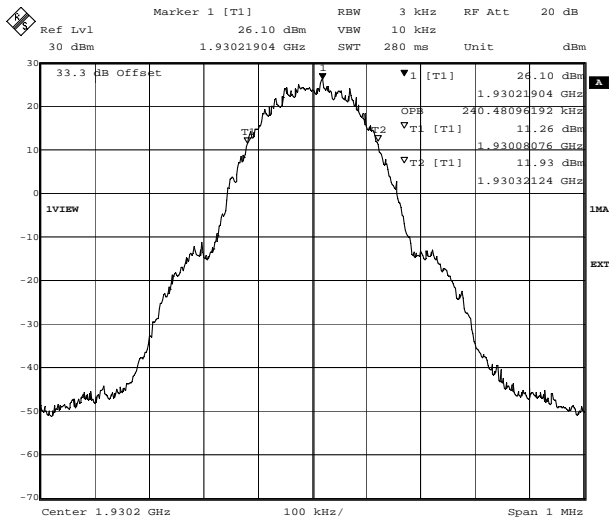
**Transmitter Occupied Bandwidth: Section 2.1049(i) (Continued)**



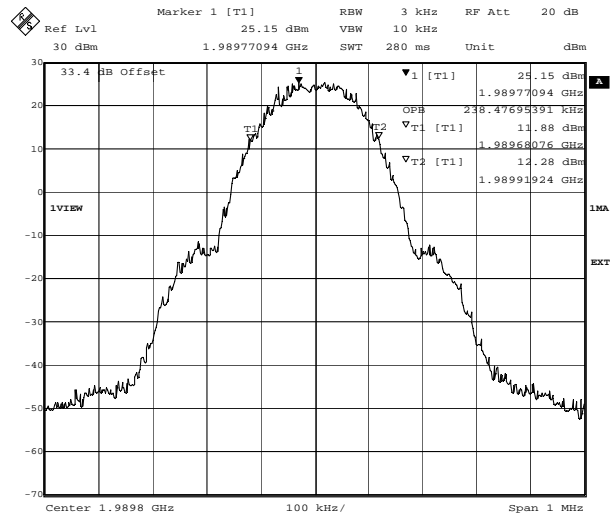
Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +33.5dBm, OBW 99% Occupied Bandwidth, GMSK TX2, FCC P art 2.1049  
 Date: 25.JUL.2006 14:33:30



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +33.5dBm, OBW 99% Occupied Bandwidth, GMSK TX2, FCC P art 2.1049  
 Date: 25.JUL.2006 14:35:57



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +33.5dBm, OBW 99% Occupied Bandwidth, GMSK TX3, FCC P art 2.1049  
 Date: 25.JUL.2006 15:10:24



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +33.5dBm, OBW 99% Occupied Bandwidth, GMSK TX3, FCC P art 2.1049  
 Date: 25.JUL.2006 15:12:46

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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**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.

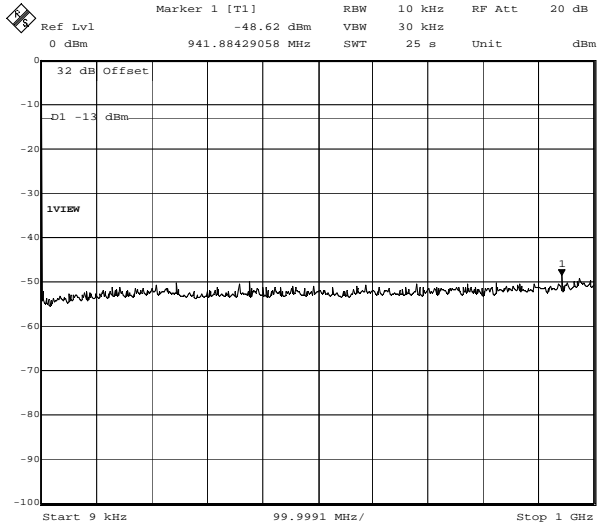
7.7.2. Tests were performed to identify the maximum transmitter conducted emission levels.

**Result: 8PSK, TX0=512 and TX1=537**

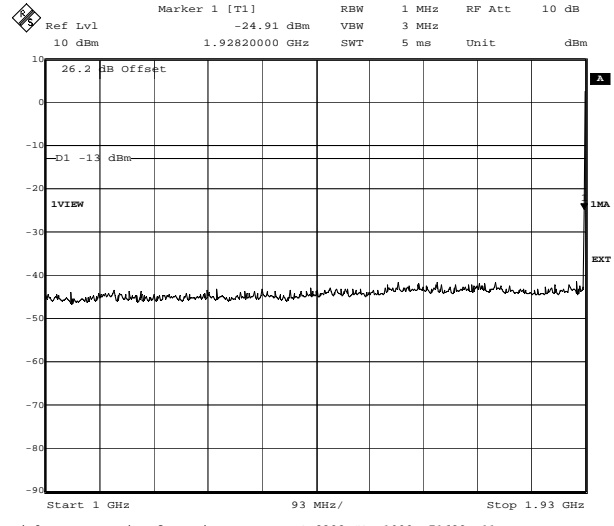
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-48.6	-13.0	35.6	Complied
1.0 GHz to 1.9282 GHz	-24.9	-13.0	11.9	Complied
1.99 GHz to 2.5 GHz	-41.3	-13.0	28.3	Complied
2.5 GHz to 10.0 GHz	-33.1	-13.0	20.1	Complied
10.0 GHz to 20.0 GHz	-26.1	-13.0	13.1	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

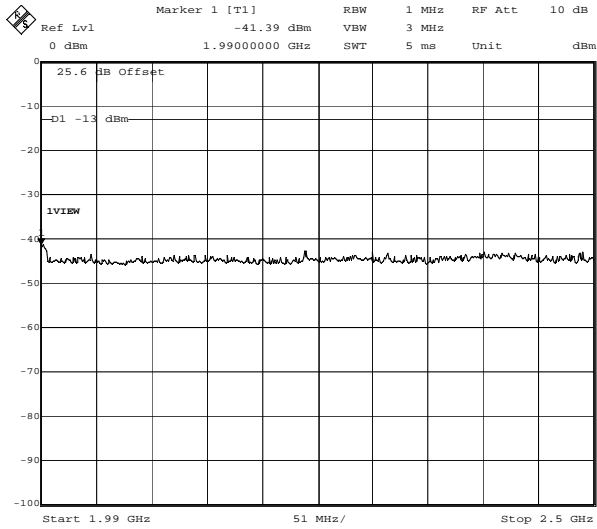
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



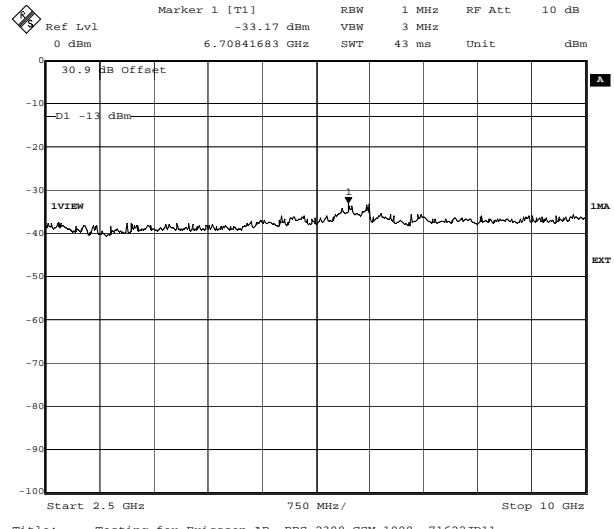
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:02:44



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:08:54



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:09:42

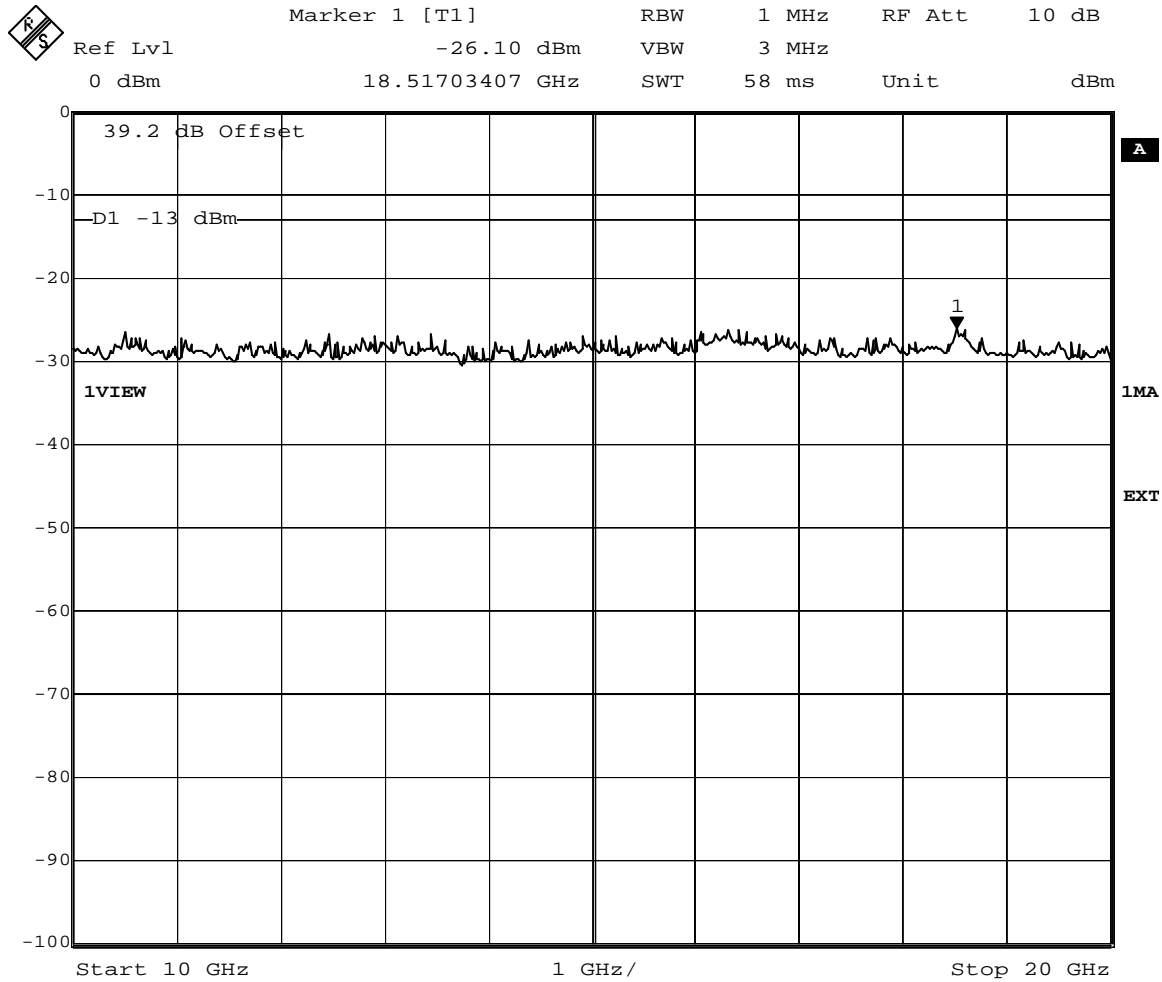


Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:11:16



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX0/TX1. 30.2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 09:15:00

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

**Results: 8PSK, TX0=512 and TX1=537 (Continued)**

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


**First Band: 1928.2 to 1929.2 MHz**

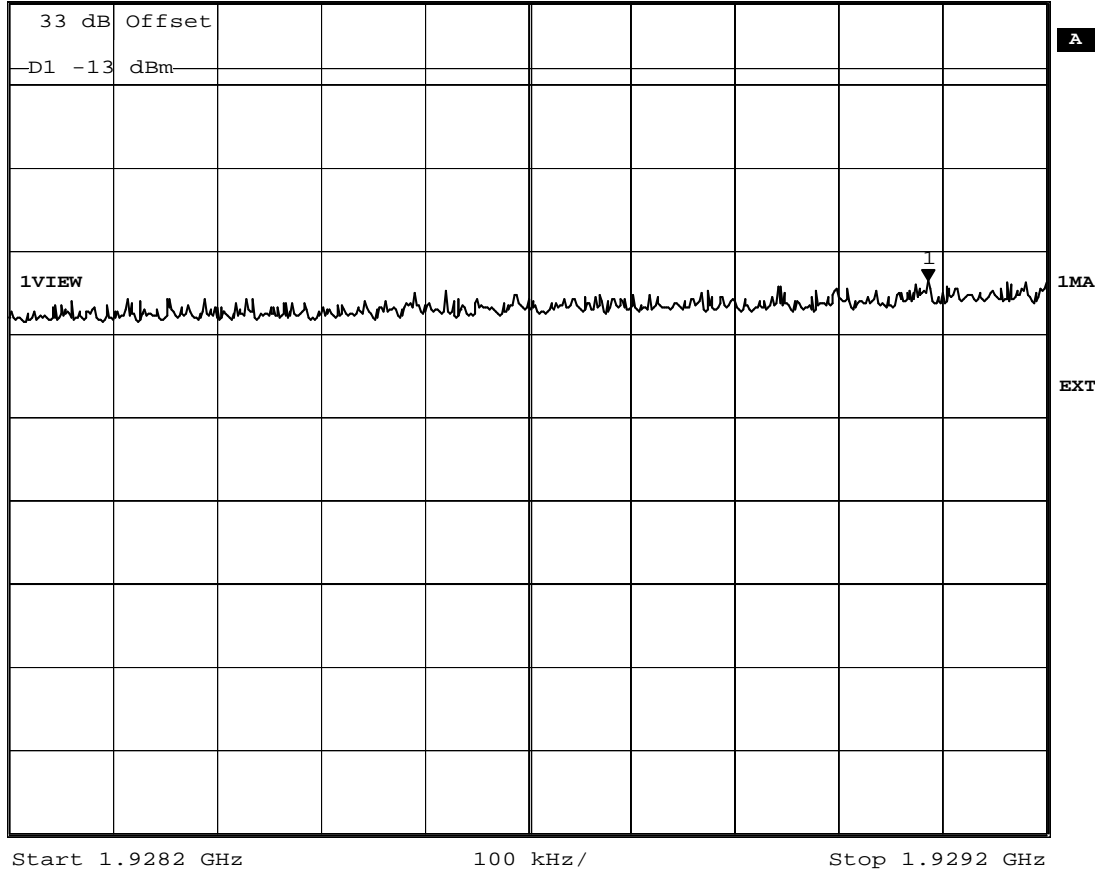
100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	78.704	6	91.428
2	80.796	7	105.218
3	82.439	8	114.151
4	94.829	9	135.555
5	100.452	10	131.123
<b>Total Peak Power:</b>		1014.695 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.2 to 1929.2	-29.9	-13.0	16.9	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2003

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

	Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
	Ref Lvl	135.555 nW	VBW	300 kHz	
	316.2 uW	1.92908577 GHz	SWT	5 ms	Unit
					W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX0/TX1. 30.2dBm. Integration Plot. FCC Part 24.238.  
 Date: 27.JUL.2006 09:17:05

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

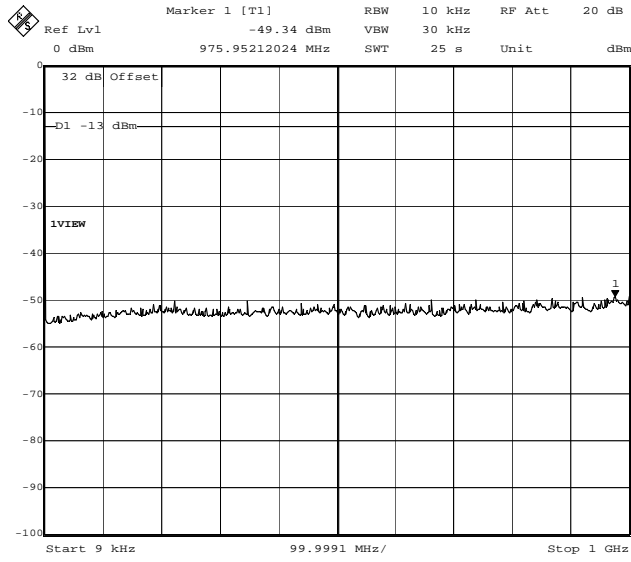
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**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)****Result: 8PSK, TX0=810 and TX1=785**

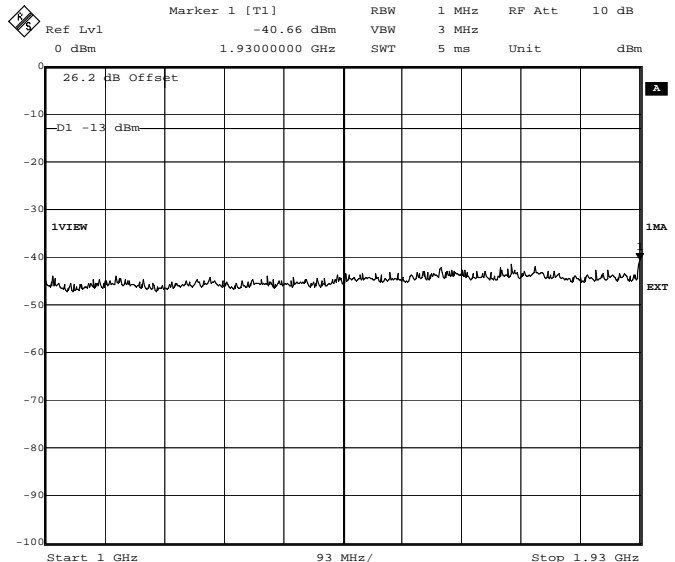
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-49.3	-13.0	36.3	Complied
1.0 GHz to 1.93 GHz	-40.6	-13.0	27.6	Complied
1.9918 GHz to 2.5 GHz	-23.6	-13.0	10.6	Complied
2.5 GHz to 10.0 GHz	-33.1	-13.0	20.1	Complied
10.0 GHz to 20.0 GHz	-25.7	-13.0	12.7	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2003

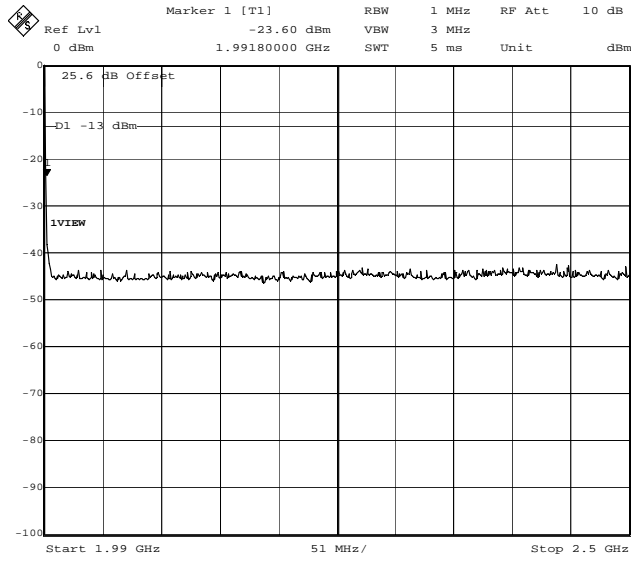
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



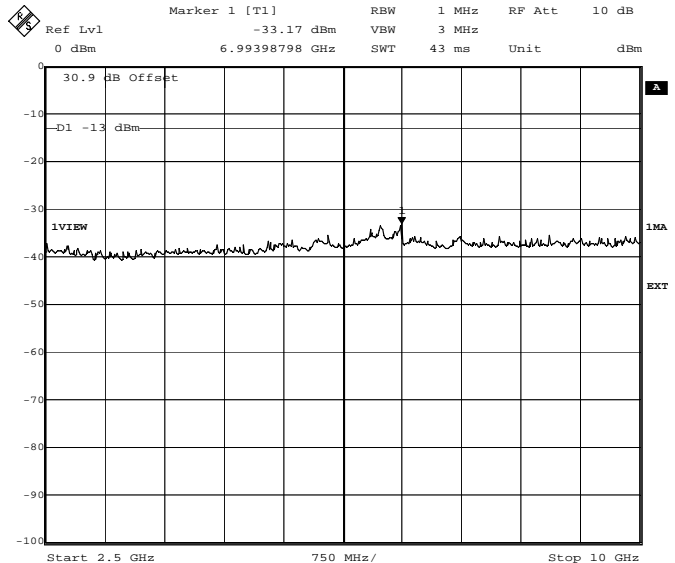
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:53:29



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:55:09



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:56:30



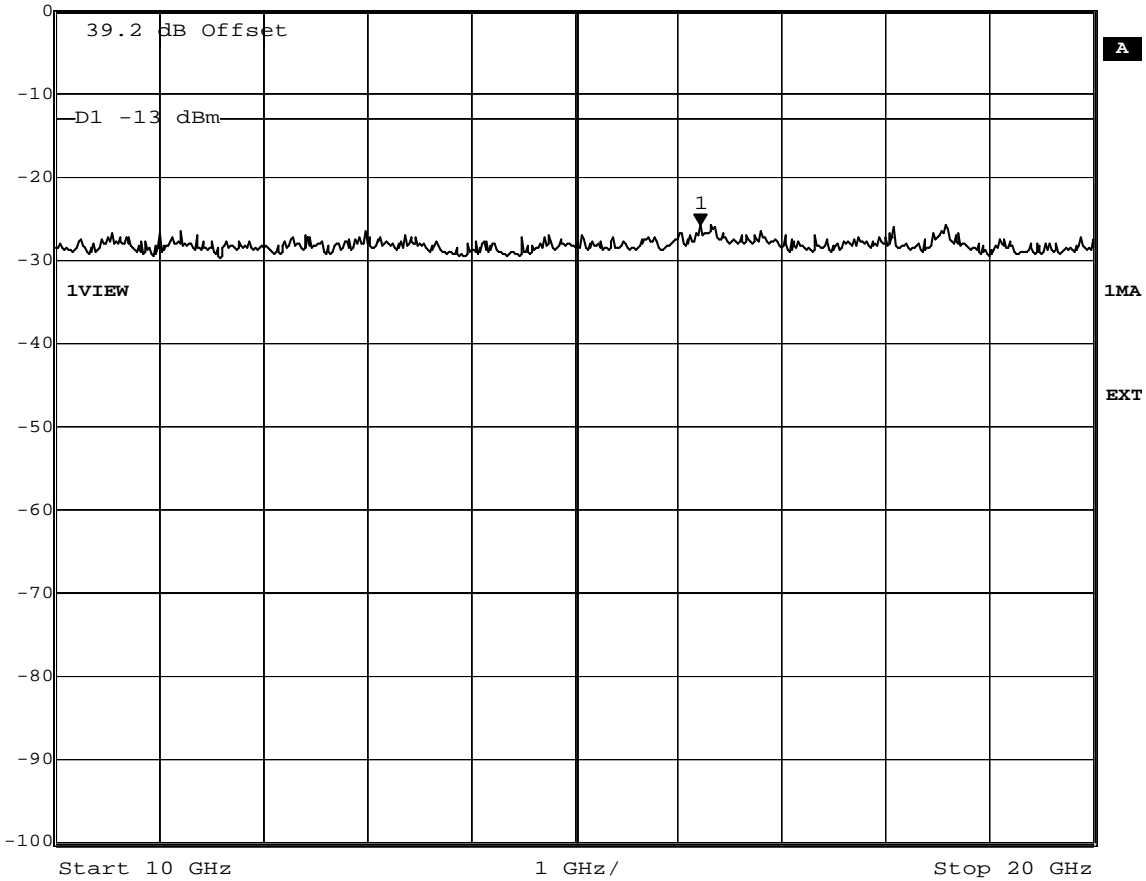
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 09:57:34

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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



Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
Ref Lvl	-25.75 dBm	VBW	3 MHz	
0 dBm	16.21242485 GHz	SWT	58 ms	Unit dBm



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 09:50:41

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: 8PSK, TX0=810 and TX1=785(Continued)**

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

**First Band: 1990.8 to 1991.8 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	169.642	6	95.007
2	141.921	7	119.960
3	108.267	8	88.978
4	104.140	9	73.126
5	96.849	10	78.594
<b>Total Peak Power:</b>		1076.484 nW/MHz	

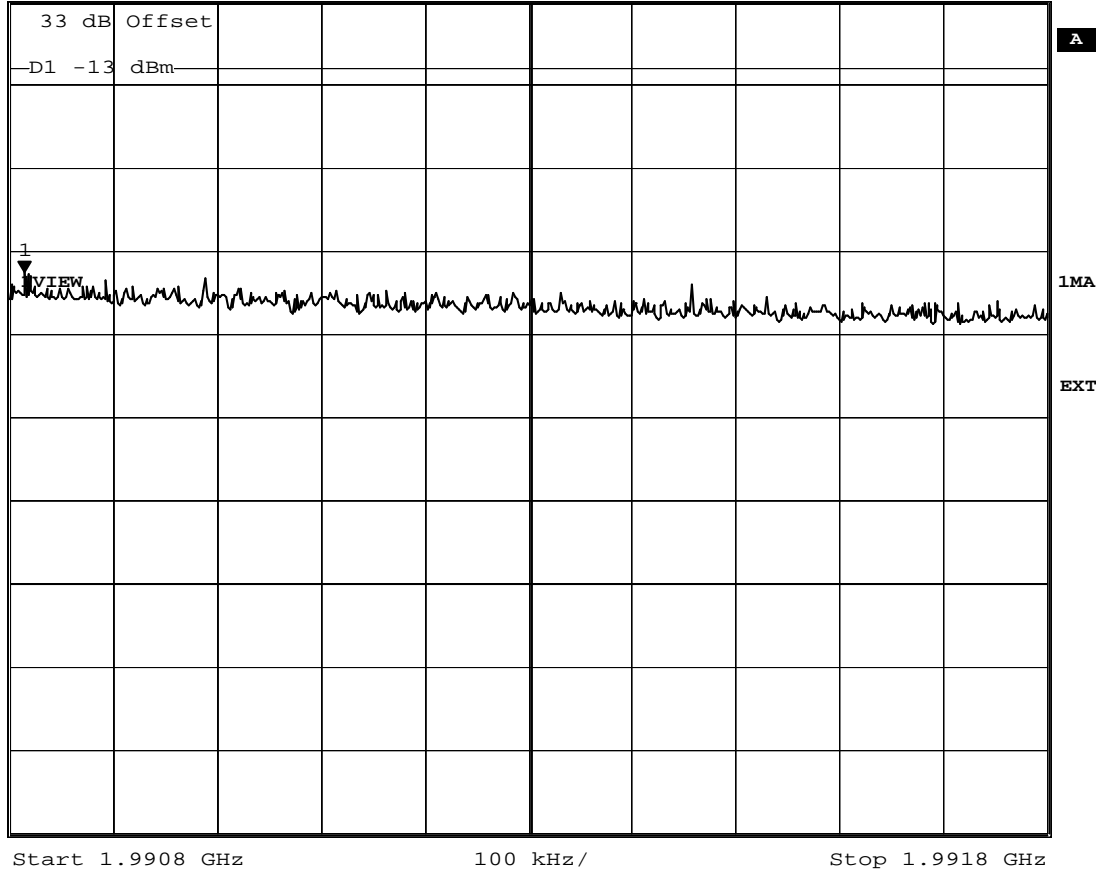
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.8 to 1991.8	-29.7	-13.0	16.7	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	169.642 nW	VBW	300 kHz	
316.2 $\mu$ W	1.99081403 GHz	SWT	5 ms	Unit W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX0/TX1. 30. 2dBm. Integration Plot. FCC Part 24.238.  
 Date: 27.JUL.2006 09:45:11



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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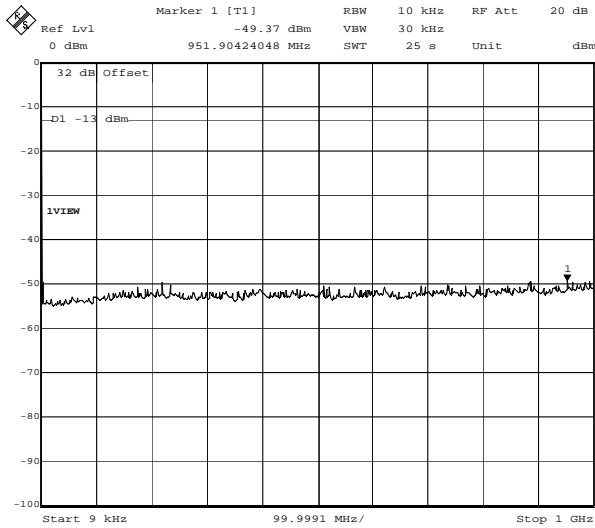
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Result: GMSK, TX0=512 and TX1=537**

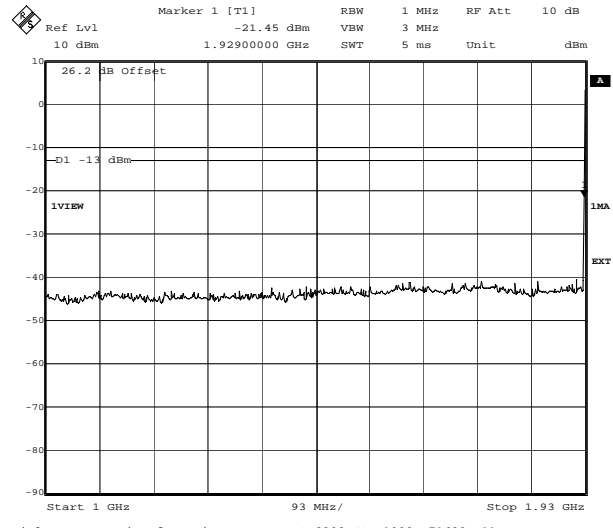
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-49.3	-13.0	36.3	Complied
1.0 GHz to 1.9282 GHz	-21.4	-13.0	8.4	Complied
1.99 GHz to 2.5 GHz	-41.8	-13.0	28.8	Complied
2.5 GHz to 10.0 GHz	-33.4	-13.0	20.4	Complied
10.0 GHz to 20.0 GHz	-26.0	-13.0	13.0	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

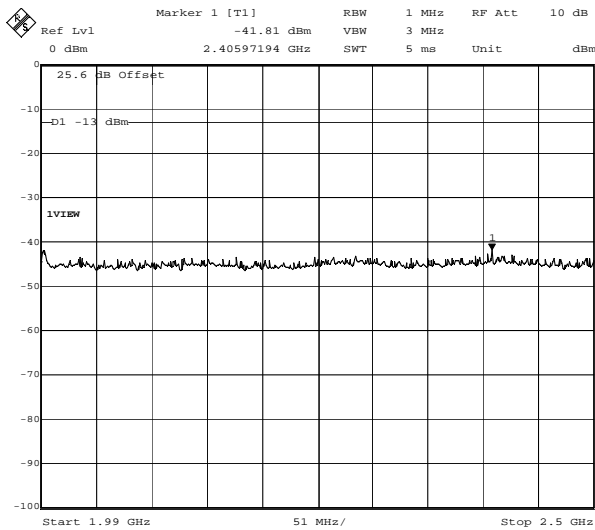
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



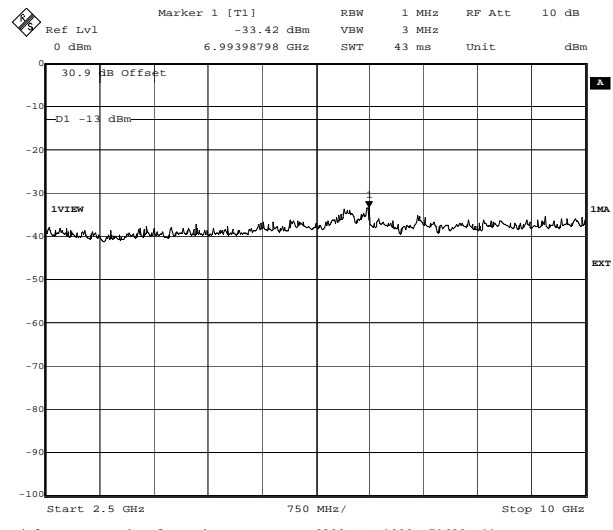
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX0/TX1. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 09:22:18



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX0/TX1. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 09:43:11




Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX0/TX1. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 10:19:20

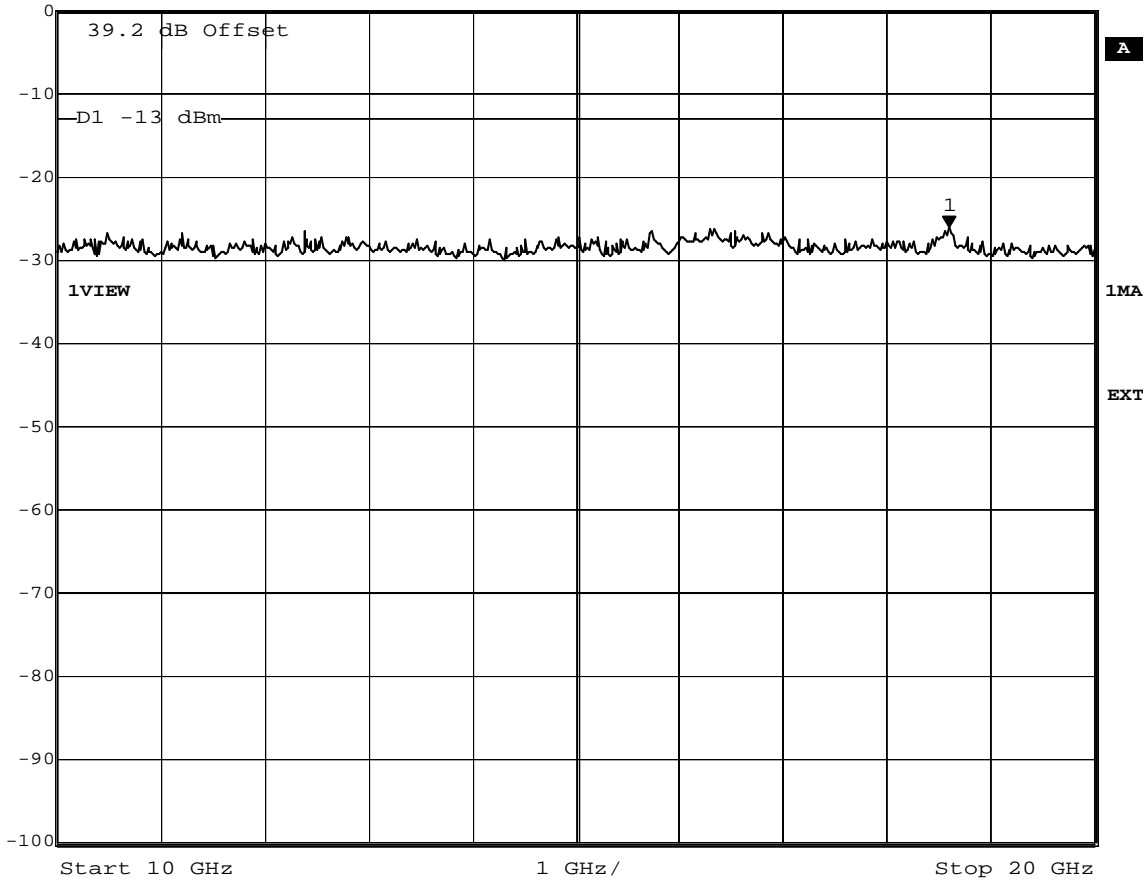


Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX0/TX1. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 10:20:38

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

	Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
	Ref Lvl	-26.07 dBm	VBW	3 MHz	
	0 dBm	18.59719439 GHz	SWT	58 ms	Unit



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX0/TX1. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 14:54:04

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

**Results: GMSK, TX0=512 and TX1=537 (Continued)**

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

**First Band: 1928.2 to 1929.2 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	64.019	6	96.351
2	72.072	7	108.014
3	79.818	8	108.420
4	86.716	9	126.775
5	104.678	10	145.147
<b>Total Peak Power:</b>		992.010 nW/MHz	

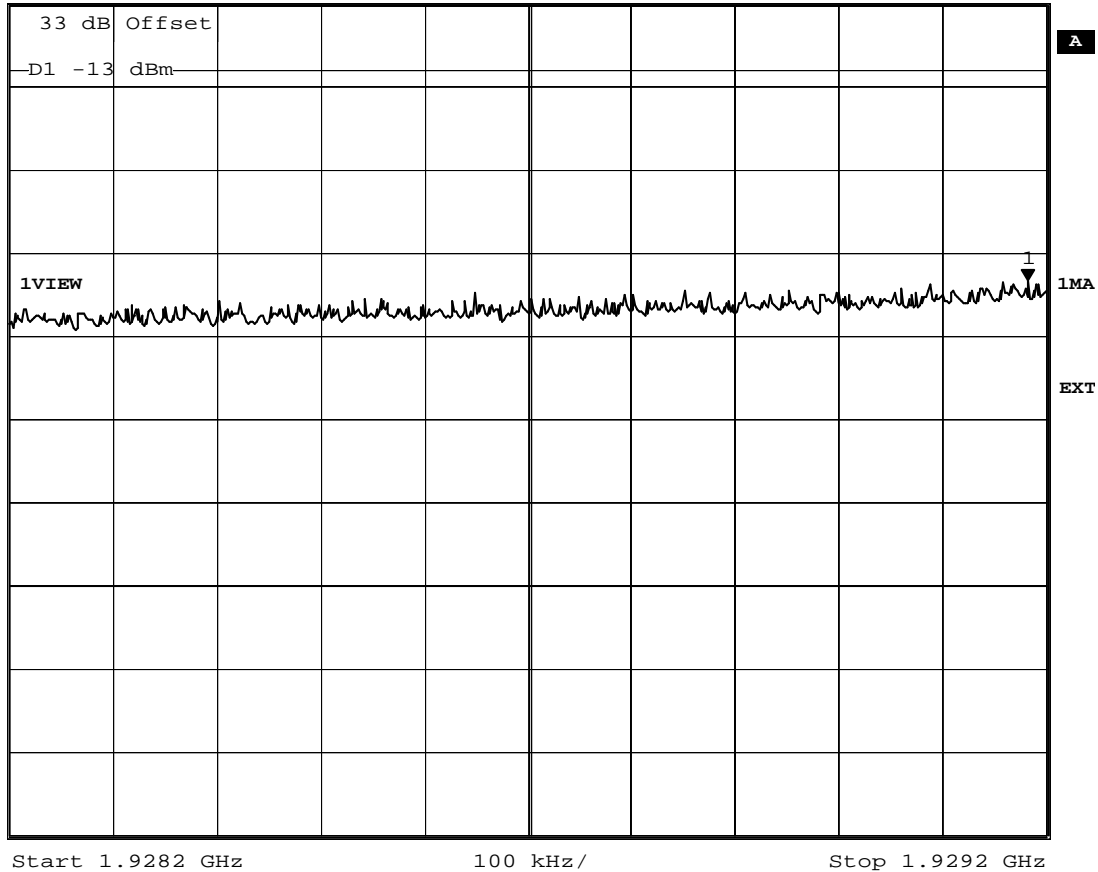
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.2 to 1929.2	-30.0	-13.0	17	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2003

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



Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	145.147 nW	VBW	300 kHz	
316.2 $\mu$ W	1.92918196 GHz	SWT	5 ms	Unit W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX0/TX1. 33.5dBm. Integration Plot. FCC Part 24.238.  
 Date: 26.JUL.2006 11:28:43

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

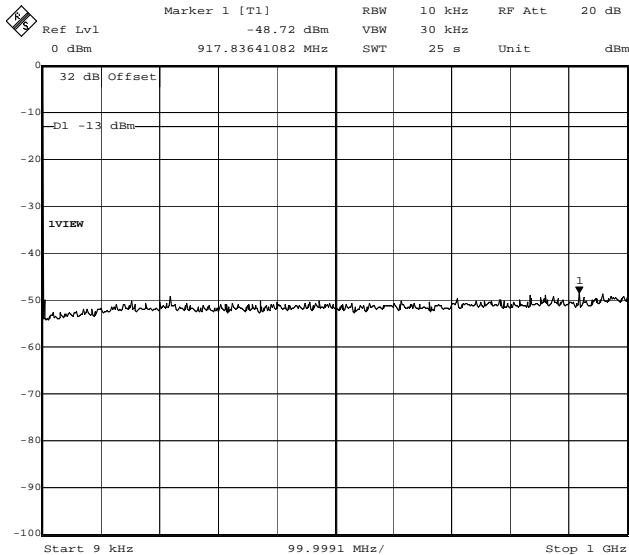
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**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)****Result: GMSK, TX0=810 and TX1=785**

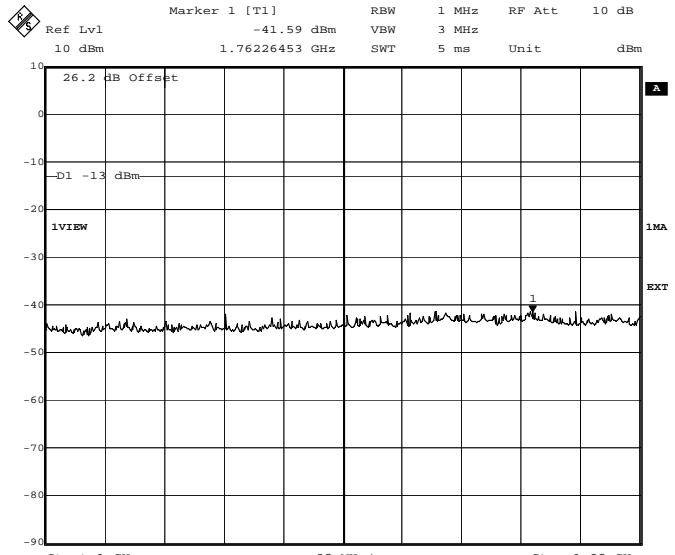
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-48.7	-13.0	35.7	Complied
1.0 GHz to 1.93 GHz	-41.5	-13.0	28.5	Complied
1.9918 GHz to 2.5 GHz	-20.8	-13.0	7.8	Complied
2.5 GHz to 10.0 GHz	-33.1	-13.0	20.1	Complied
10.0 GHz to 20.0 GHz	-25.4	-13.0	12.4	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

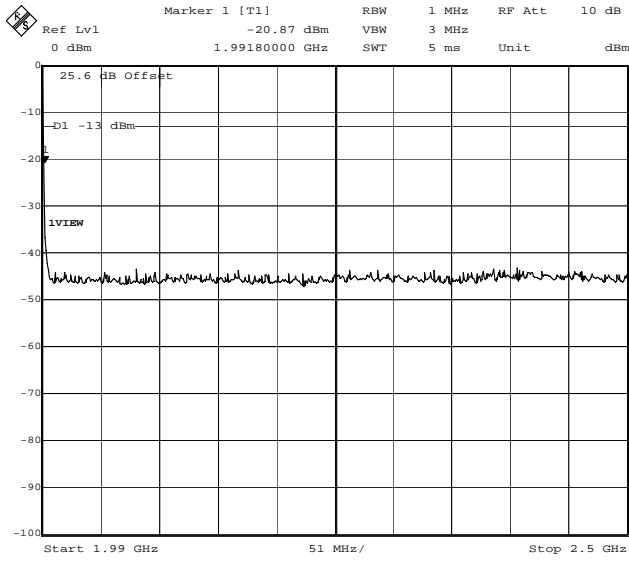
Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)



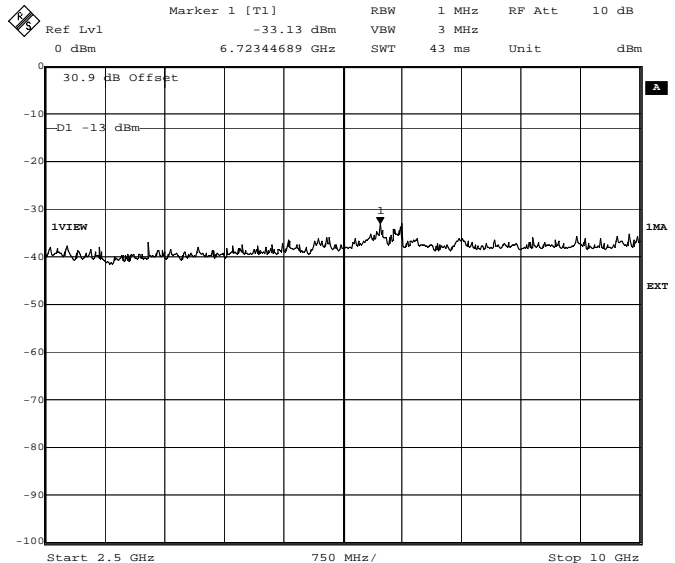
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX0/TX1. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 13:21:42



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX0/TX1. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 13:22:59



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX0/TX1. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 13:29:31



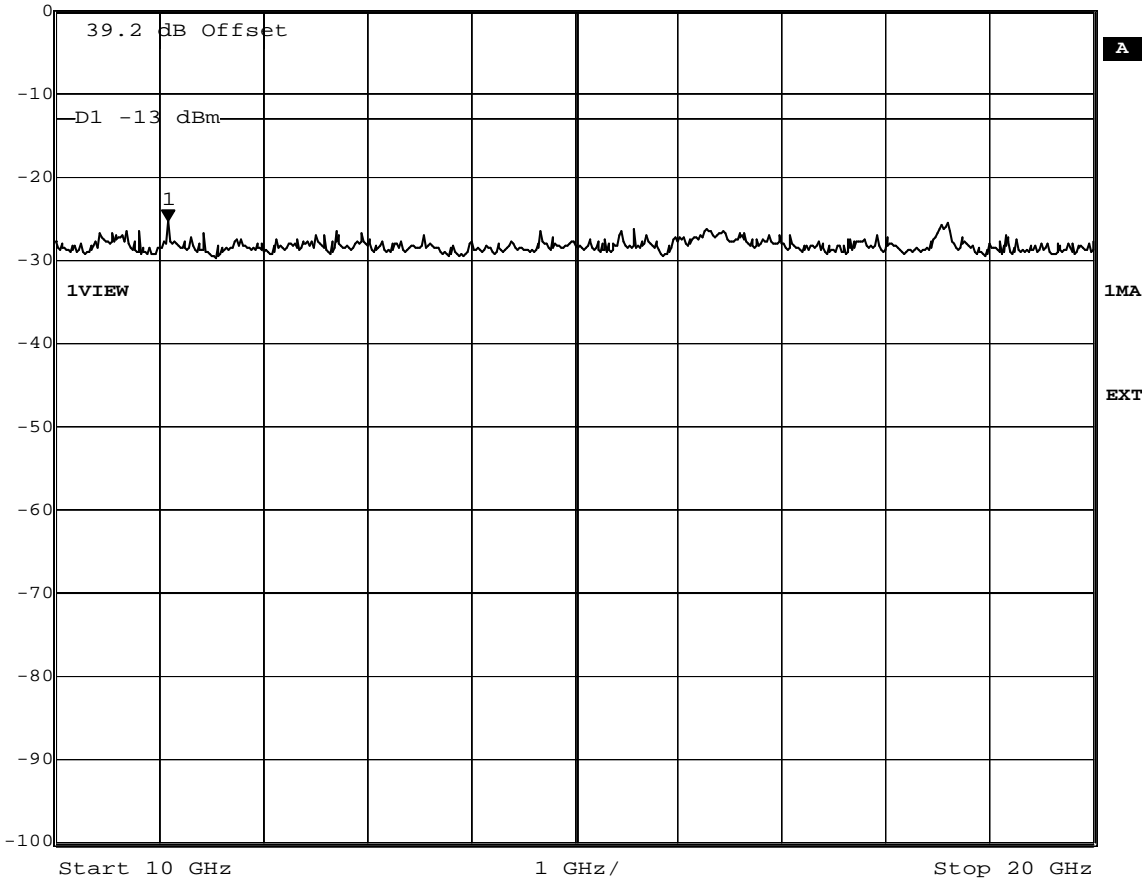
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX0/TX1. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 13:30:49

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
0 dBm	-25.49 dBm	VBW	3 MHz		
	11.08216433 GHz	SWT	58 ms	Unit	dBm



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX0/TX1. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 14:55:01



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: GMSK, TX0=810 and TX1=785(Continued)**

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

**First Band: 1990.8 to 1991.8 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	145.012	6	84.748
2	127.609	7	83.098
3	120.693	8	82.671
4	137.152	9	75.209
5	101.825	10	72.139
<b>Total Peak Power:</b>		1030.156 nW/MHz	

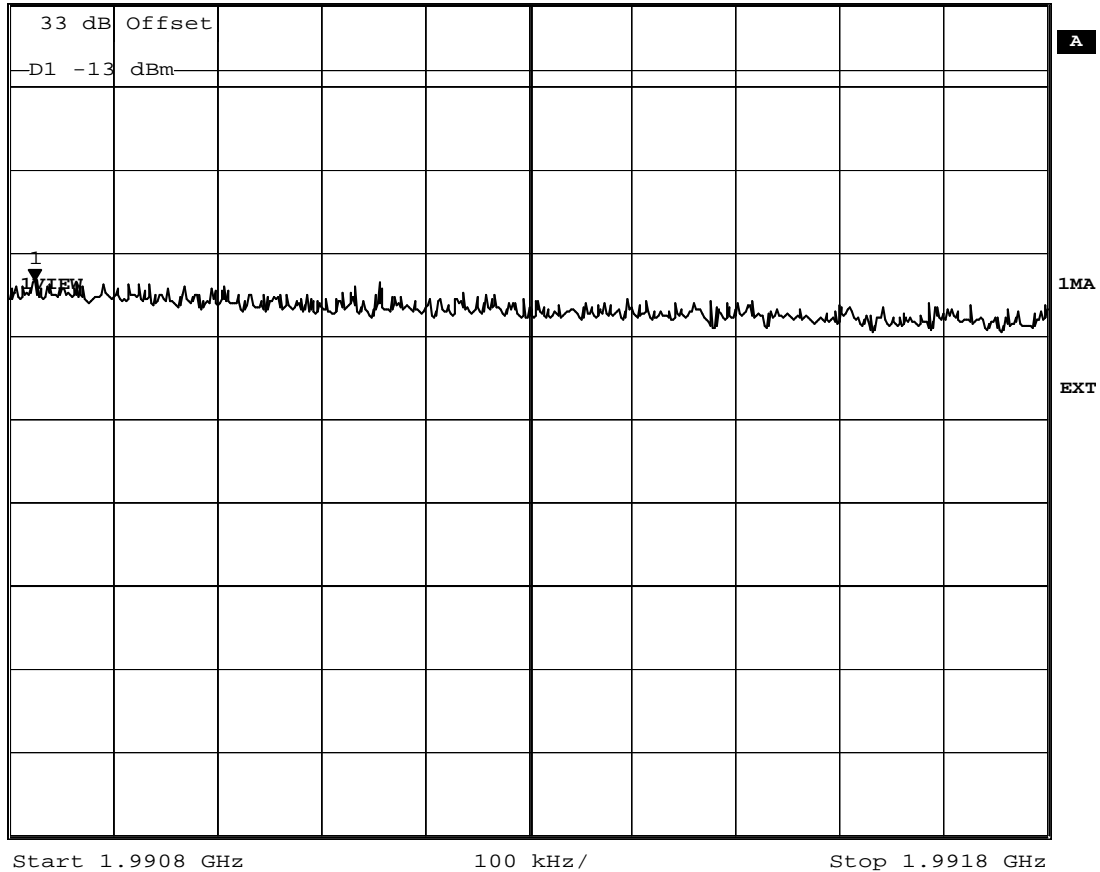
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.8 to 1991.8	-29.9	-13.0	16.9	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	145.012 nW	VBW	300 kHz	
316.2 μW	1.99082405 GHz	SWT	5 ms	Unit W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX0/TX1. 33.5dBm. Integration Plot. FCC Part 24.238.  
 Date: 26.JUL.2006 13:45:54

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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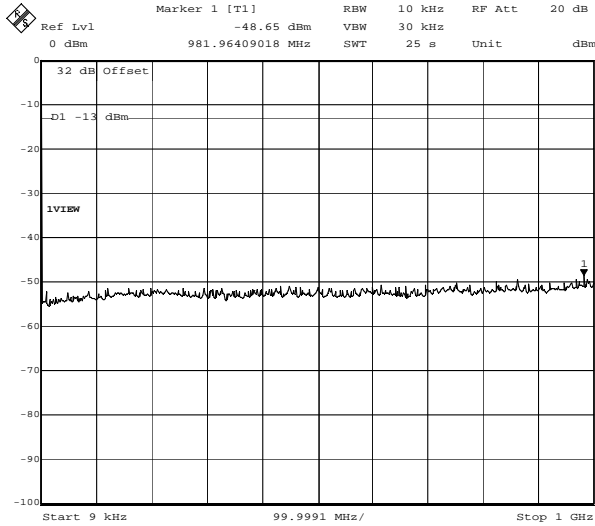
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Result: 8PSK, TX2=512 and TX3=537**

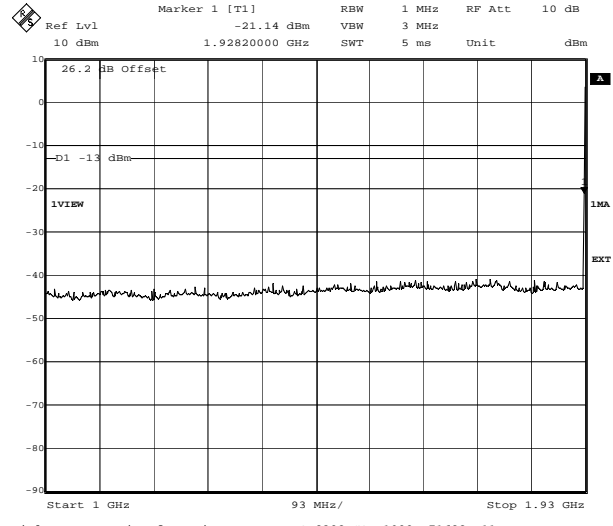
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-48.6	-13.0	35.6	Complied
1.0 GHz to 1.9282 GHz	-21.1	-13.0	8.1	Complied
1.99 GHz to 2.5 GHz	-41.2	-13.0	28.2	Complied
2.5 GHz to 10.0 GHz	-32.8	-13.0	19.8	Complied
10.0 GHz to 20.0 GHz	-26.2	-13.0	13.2	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

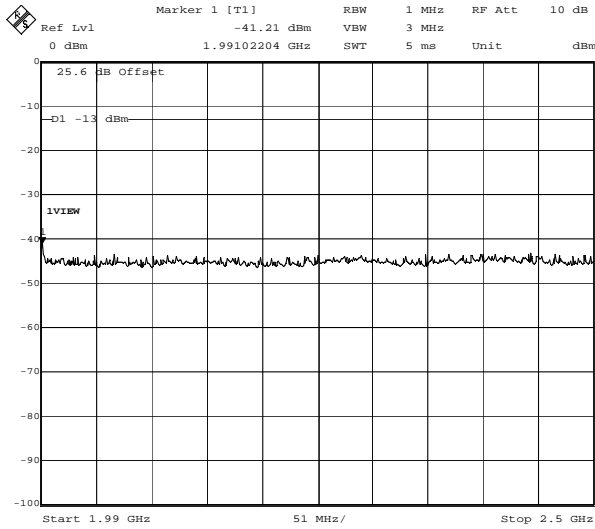
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



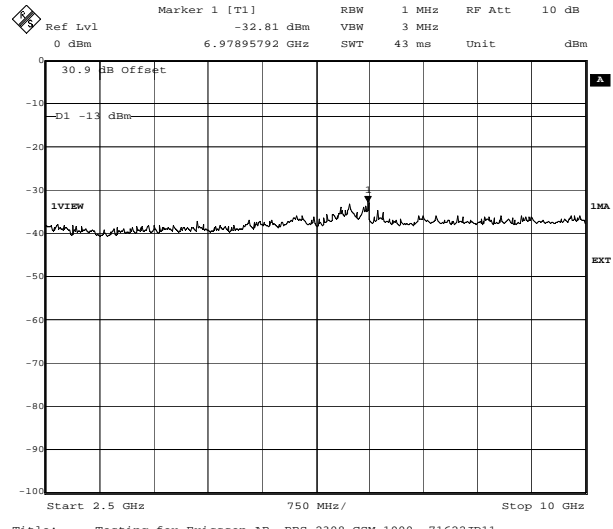
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 10:54:59



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 10:56:26



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 10:57:41

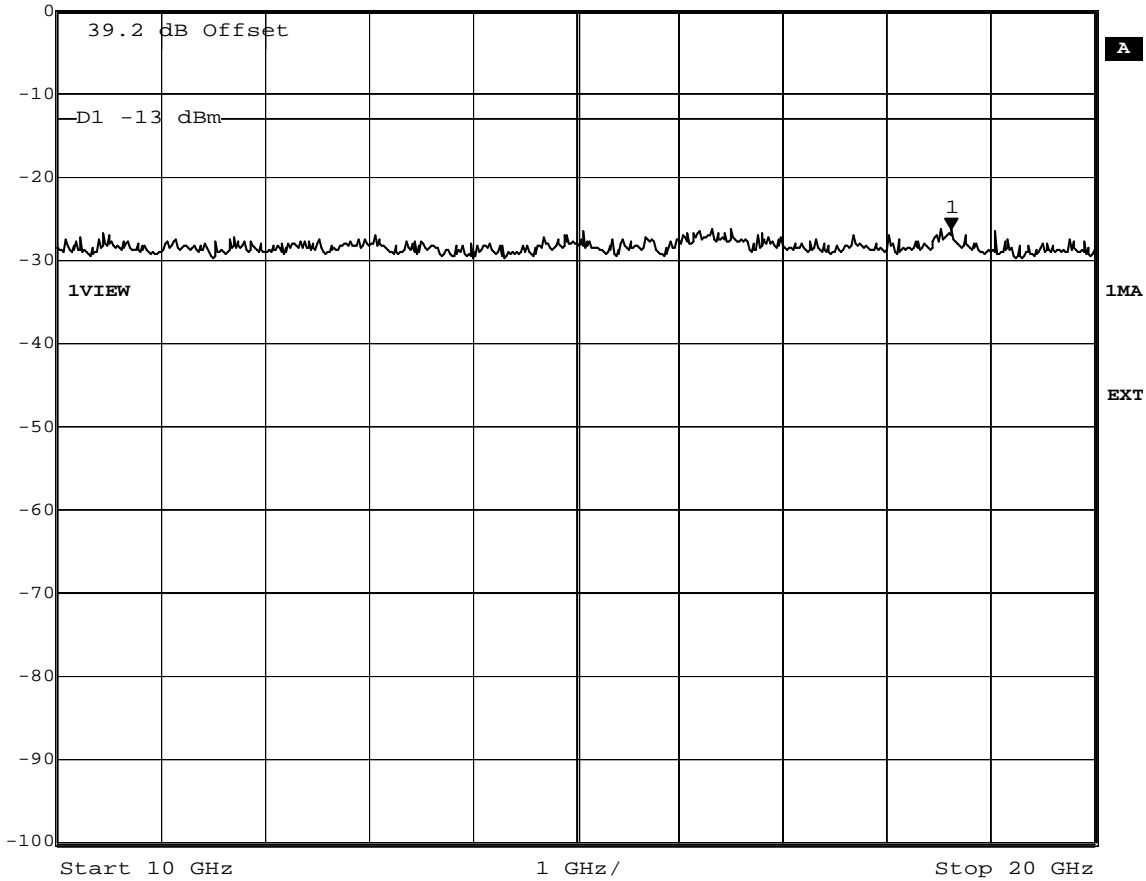


Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 10:58:45

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

	Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
	Ref Lvl	-26.26 dBm	VBW	3 MHz	
	0 dBm	18.61723447 GHz	SWT	58 ms	Unit dBm



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX2/TX3. 30.2dBm. FCC Part 24.238.  
 Date: 27.JUL.2006 11:02:57

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

**Results: 8PSK, TX2=512 and TX3=537 (Continued)**

1st 1 MHz block immediately outside adjacent frequency block.

**Fourth Band: 1928.2 to 1929.2 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	78.117	6	113.511
2	82.594	7	150.759
3	95.901	8	114.579
4	100.734	9	140.664
5	131.184	10	162.489
<b>Total Peak Power:</b>		1170.532 nW/MHz	

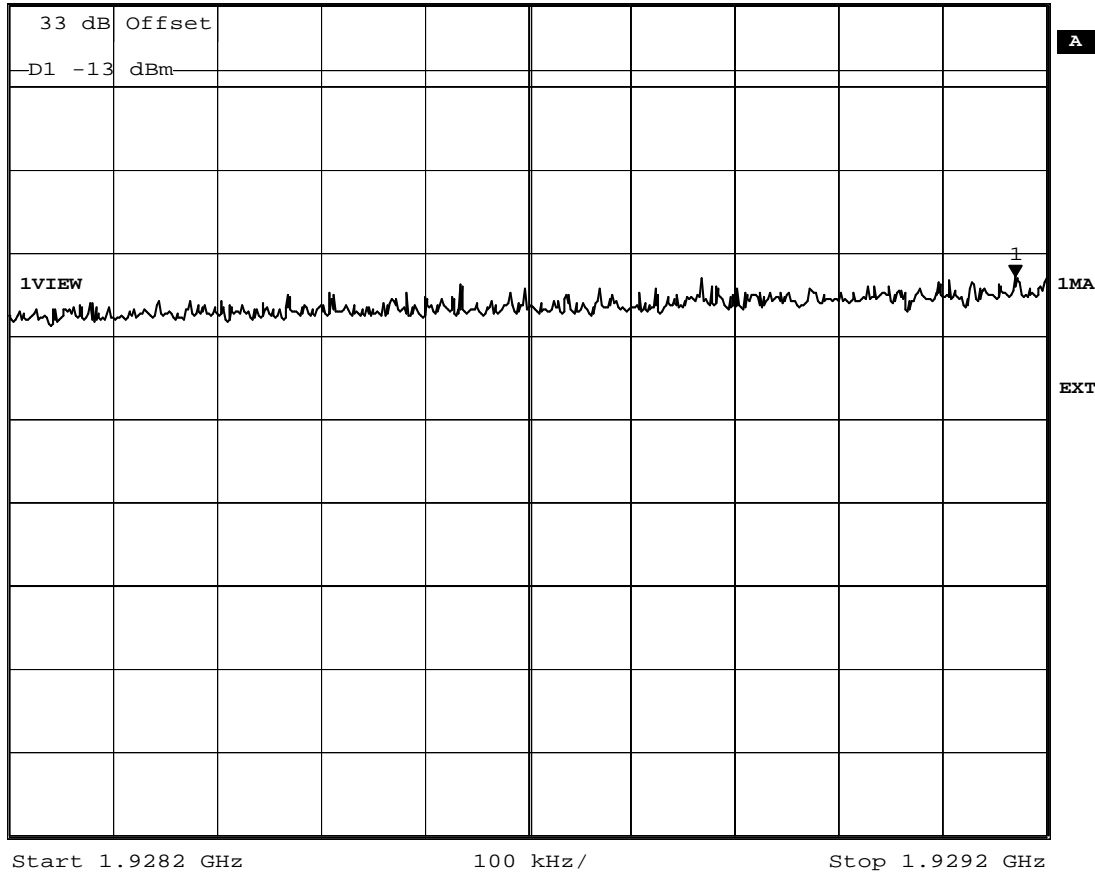
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.2 to 1929.2	-29.3	-13.0	16.3	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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



Marker 1 [T1] RBW 100 kHz RF Att 10 dB  
Ref Lvl 162.489 nW VBW 300 kHz  
316.2 uW 1.92916994 GHz SWT 5 ms Unit W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. Integration Plot. FCC Part 24.238.  
Date: 27.JUL.2006 11:03:58

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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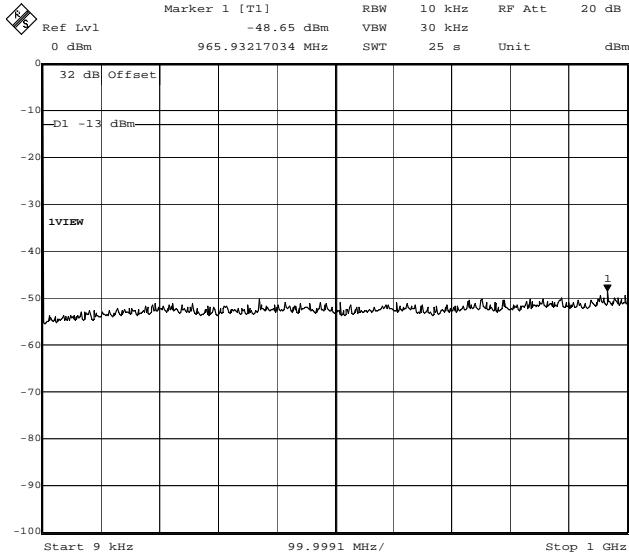
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)****Result: 8PSK, TX2=810 and TX3=785**

Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-48.6	-13.0	35.6	Complied
1.0 GHz to 1.93 GHz	-40.8	-13.0	27.8	Complied
1.9918 GHz to 2.5 GHz	-20.8	-13.0	7.8	Complied
2.5 GHz to 10.0 GHz	-32.8	-13.0	19.8	Complied
10.0 GHz to 20.0 GHz	-26.1	-13.0	13.1	Complied

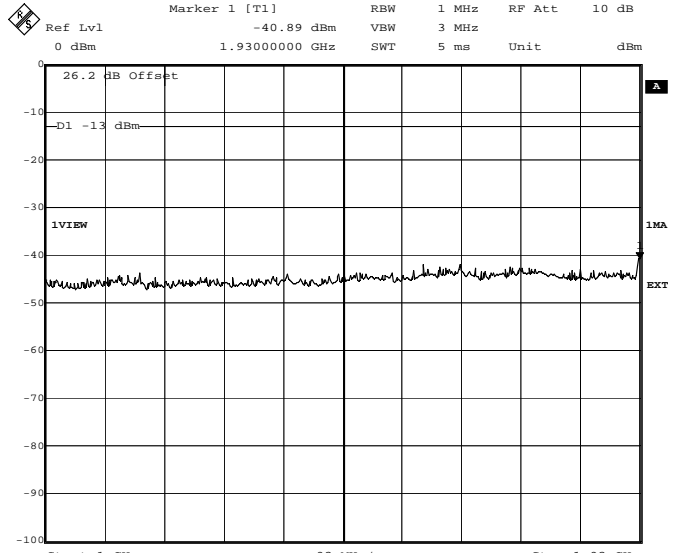


Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

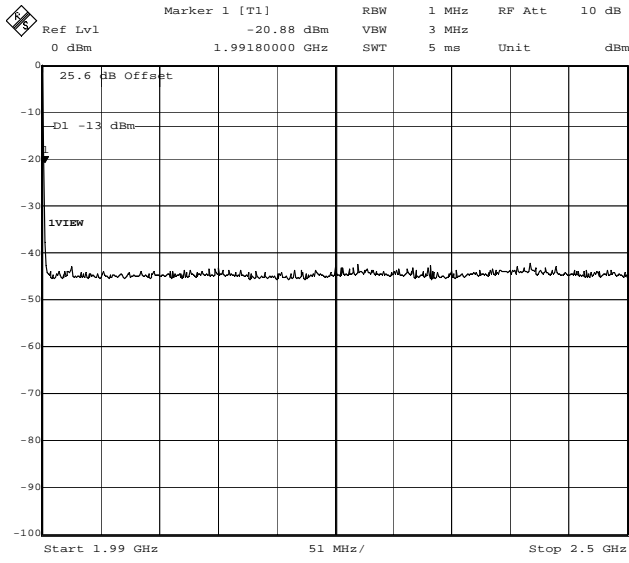
Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)



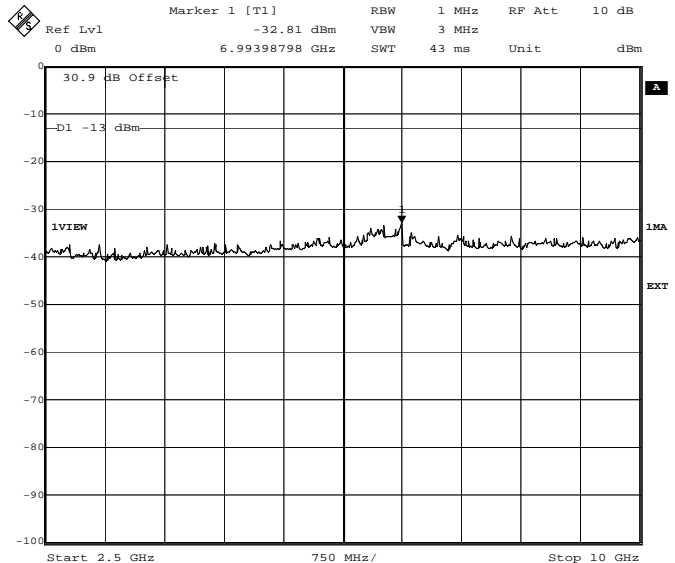
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 12:27:03



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 12:30:09



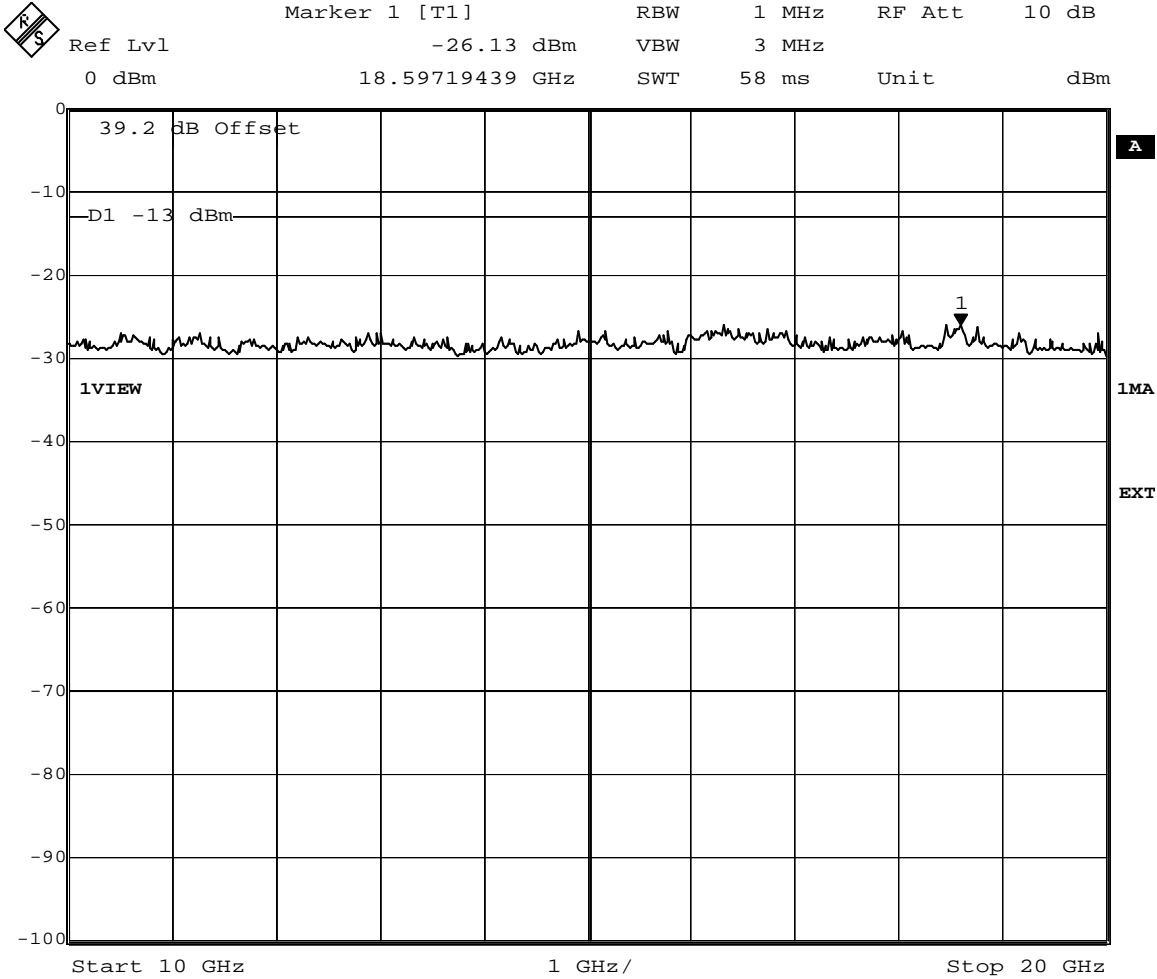
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 12:31:25



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX2/TX3. 30. 2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 12:32:20

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX2/TX3. 30.  
2dBm. FCC Part 24.238.  
Date: 27.JUL.2006 11:24:12

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2003

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

**Results: 8PSK, TX2=810 and TX3=785(Continued)**

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

**First Band: 1990.8 to 1991.8 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	153.250	6	93.331
2	130.388	7	104.678
3	110.005	8	74.091
4	119.735	9	75.315
5	97.349	10	66.963
<b>Total Peak Power:</b>		1025.105 nW/MHz	

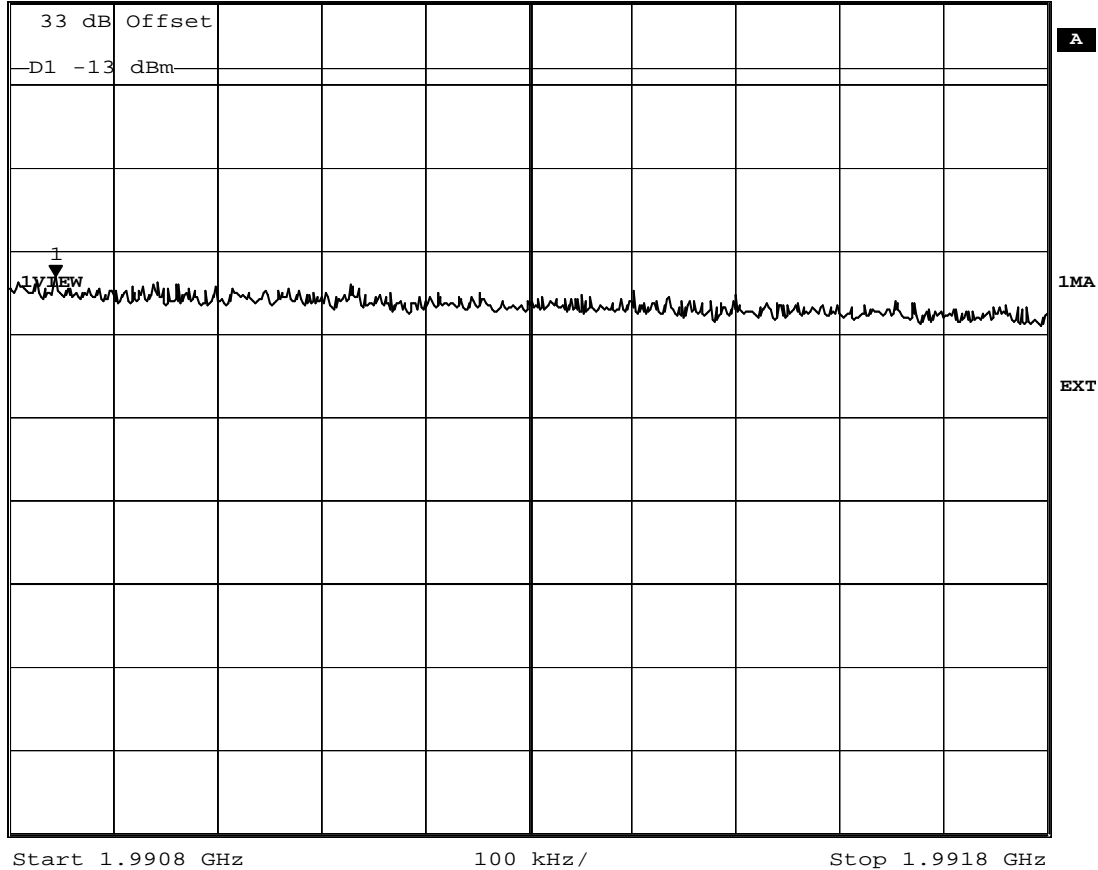
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.8 to 1991.8	-29.9	-13.0	16.9	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



	Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	153.250 nW	VBW	300 kHz		
316.2 $\mu$ W	1.99084409 GHz	SWT	5 ms	Unit	W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. 8PSK TX2/TX3. 30.2dBm. Integration Plot. FCC Part 24.238.  
 Date: 27.JUL.2006 12:21:42

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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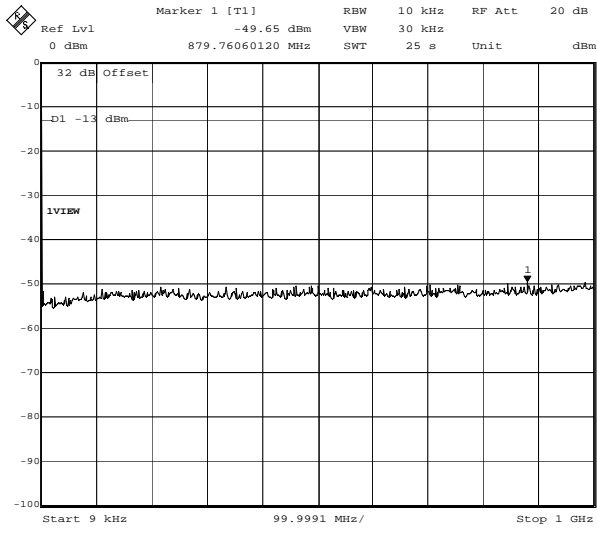
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**

**Result: GMSK, TX2=512 and TX3=537**

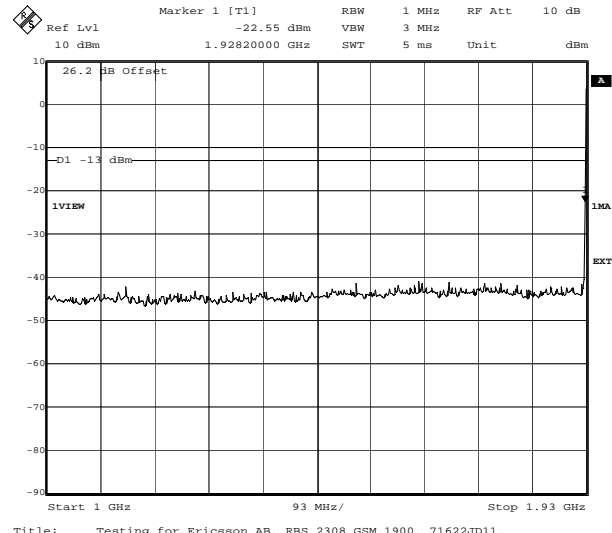
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-49.6	-13.0	36.6	Complied
1.0 GHz to 1.9282 GHz	-22.5	-13.0	9.5	Complied
1.99 GHz to 2.5 GHz	-41.7	-13.0	28.7	Complied
2.5 GHz to 10.0 GHz	-33.6	-13.0	20.6	Complied
10.0 GHz to 20.0 GHz	-25.7	-13.0	12.7	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

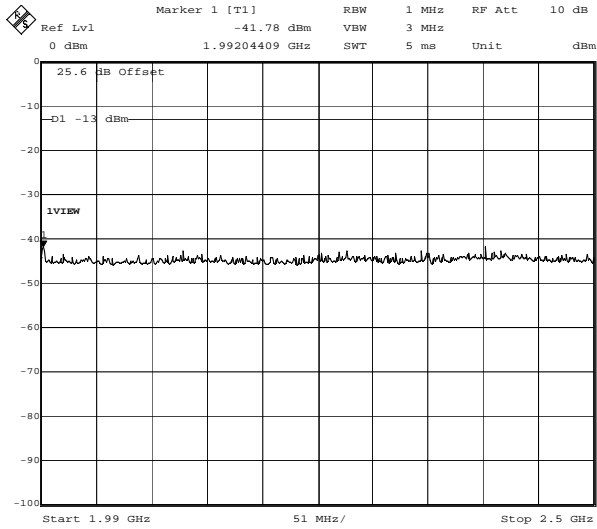
**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)**



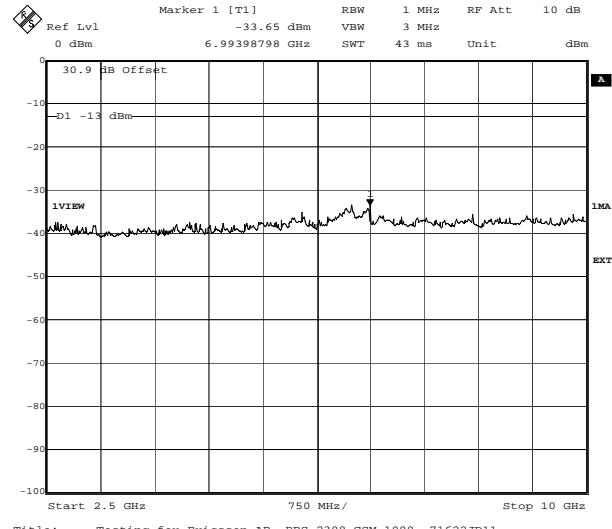
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX2/TX3. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 14:38:20



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX2/TX3. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 14:40:04




Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX2/TX3. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 14:40:57

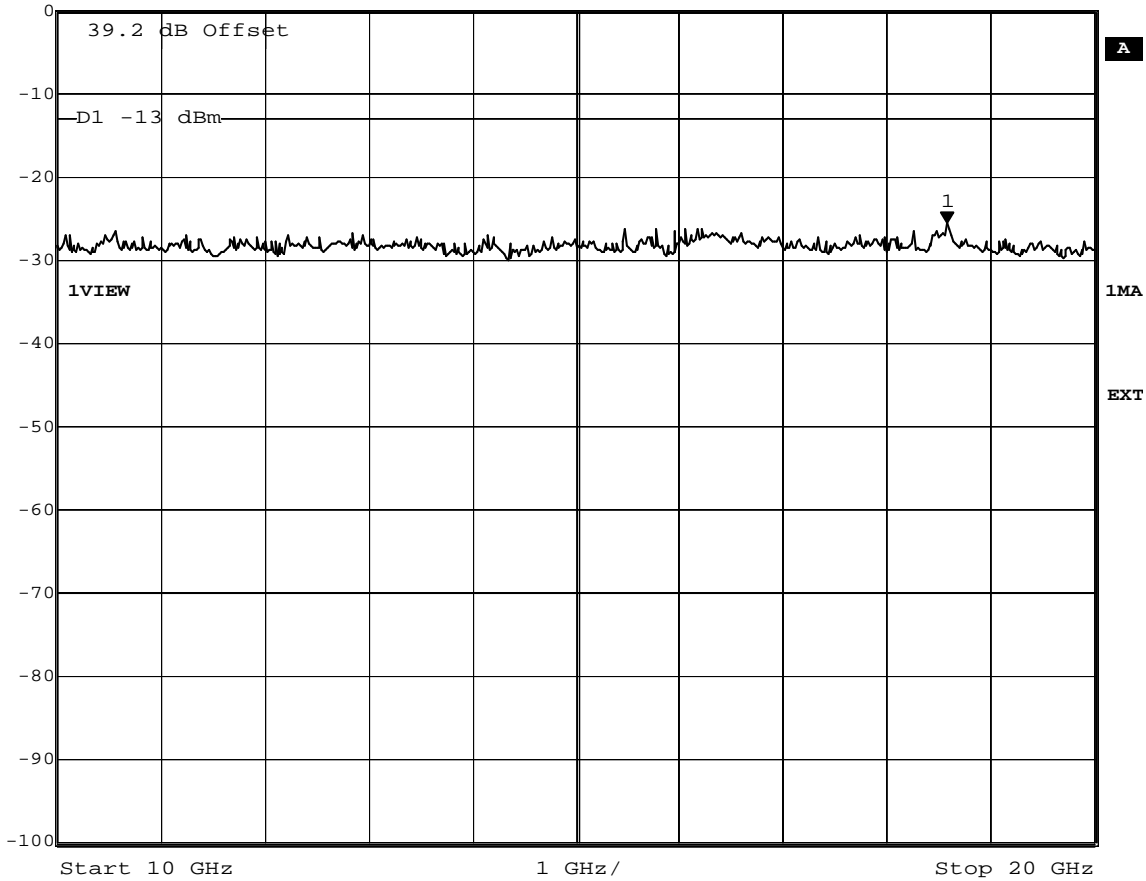


Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX2/TX3. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 14:42:28

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

	Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
	Ref Lvl	-25.71 dBm	VBW	3 MHz	
	0 dBm	18.57715431 GHz	SWT	58 ms	Unit dBm



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX2/TX3. 33.  
 5dBm. FCC Part 24.238.  
 Date: 26.JUL.2006 14:45:17

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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

**Results: GMSK, TX2=512 and TX3=537 (Continued)**

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

**First Band: 1928.2 to 1929.2 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	79.780	6	108.979
2	94.430	7	101.302
3	77.461	8	143.324
4	95.766	9	120.298
5	124.598	10	167.825
<b>Total Peak Power:</b>		1113.781 nW/MHz	

Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1928.2 to 1929.2	-29.5	-13.0	16.5	Complied

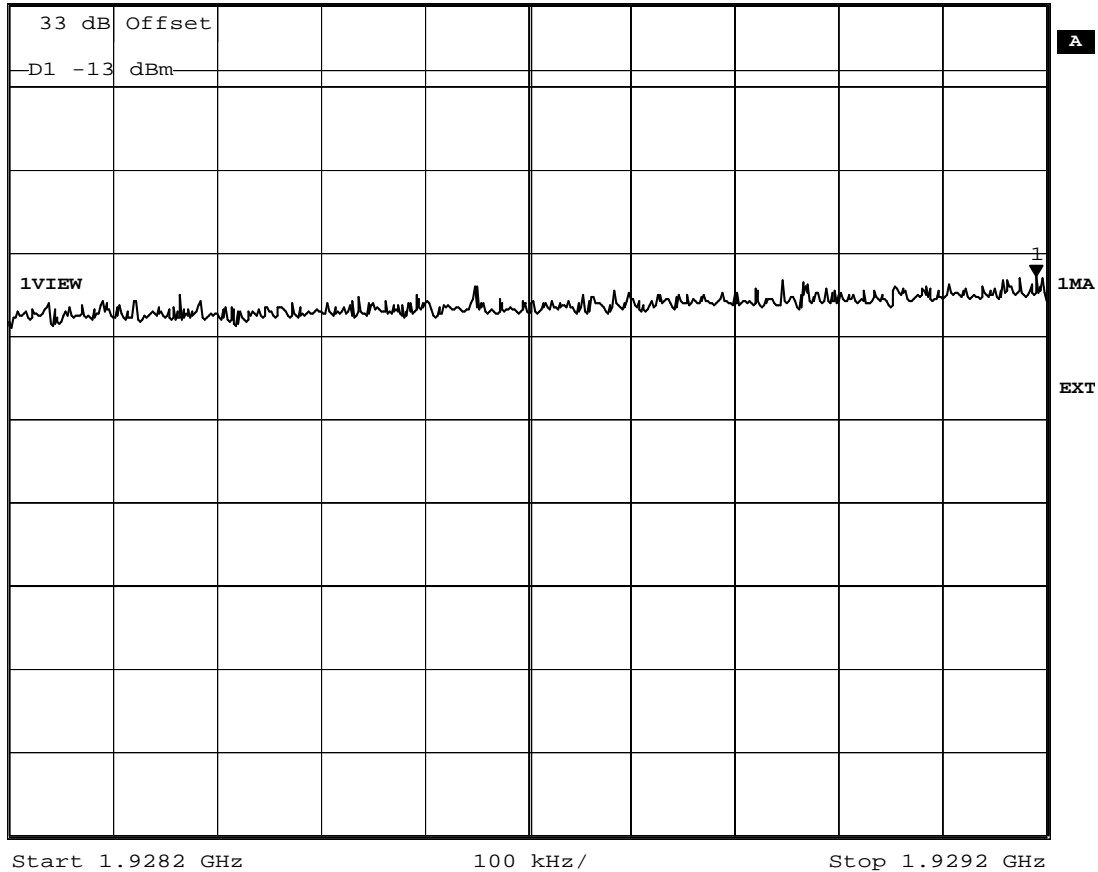


Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2003

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



Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	167.825 nW	VBW	300 kHz	
316.2 $\mu$ W	1.92918998 GHz	SWT	5 ms	Unit W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. Conducted Spurious Emissions. GMSK TX2/TX3. 33.5dBm. Integration Plot. FCC Part 24.238.  
 Date: 26.JUL.2006 14:48:28

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

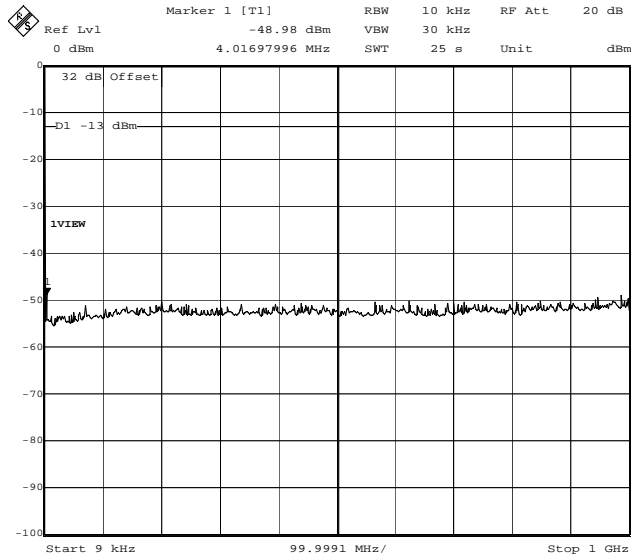
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**Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)****Result: GMSK, TX2=810 and TX3=785**

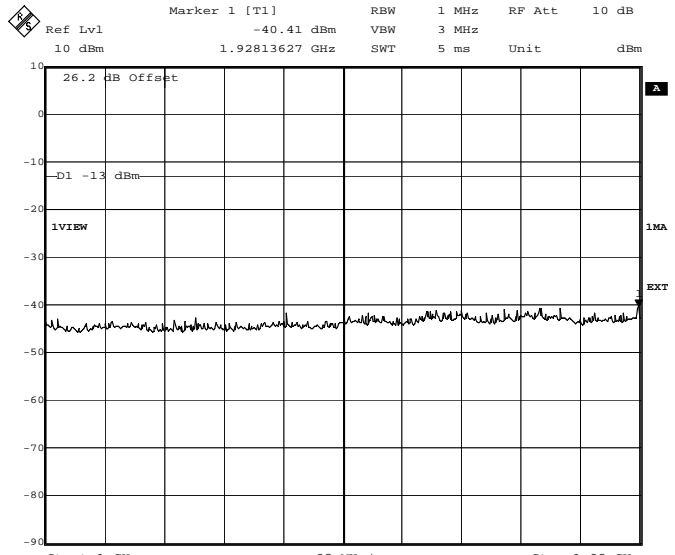
Band	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Results
0.09 MHz to 1.0 GHz	-48.9	-13.0	35.9	Complied
1.0 GHz to 1.93 GHz	-40.4	-13.0	27.4	Complied
1.9918 GHz to 2.5 GHz	-17.7	-13.0	4.7	Complied
2.5 GHz to 10.0 GHz	-33.7	-13.0	20.7	Complied
10.0 GHz to 20.0 GHz	-26.5	-13.0	13.5	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

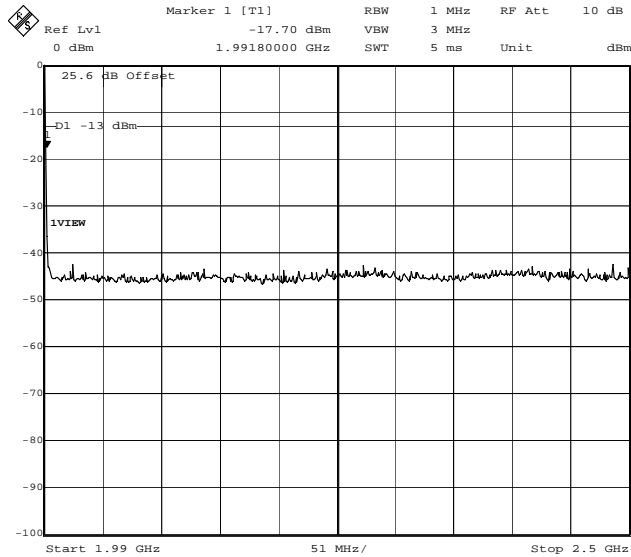
Transmitter Conducted Out of Band Emissions: Section 2.1051/24.238(a) (Continued)



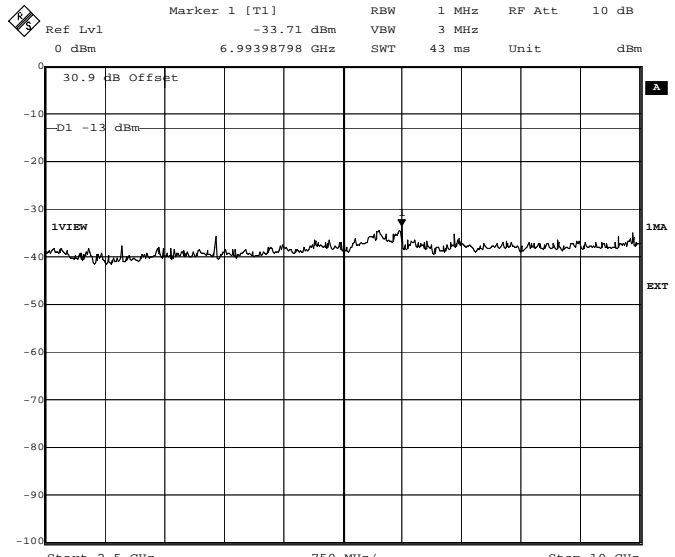
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX2/TX3. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 15:47:58



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX2/TX3. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 15:48:37



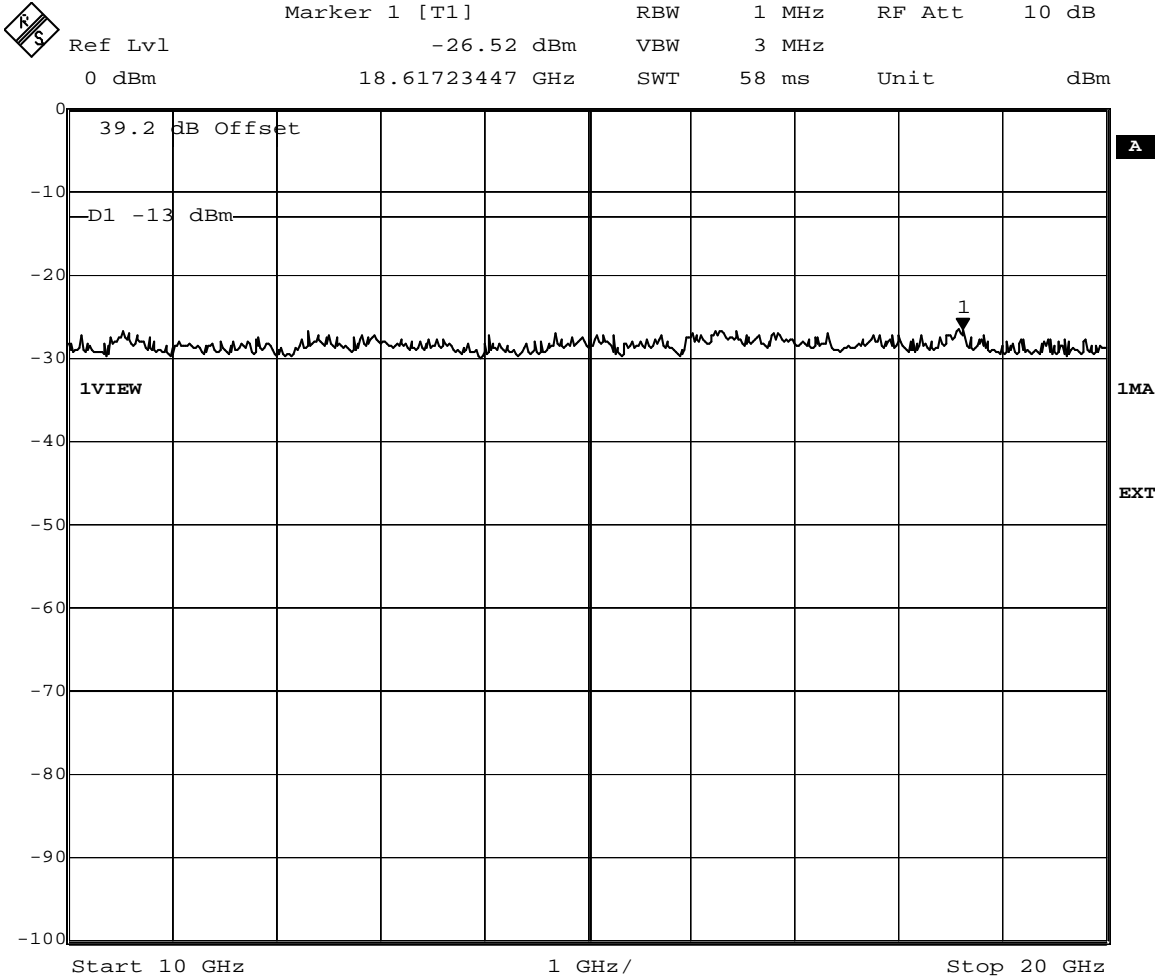
Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX2/TX3. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 15:50:44



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX0/TX1. 33. 5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 15:52:06

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX2/TX3. 33.  
5dBm. FCC Part 24.238.  
Date: 26.JUL.2006 15:54:39

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: GMSK, TX2=810 and TX3=785(Continued)**

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

**First Band: 1990.8 to 1991.8 MHz**

100 kHz Strip Number	Peak Power (nW/100kHz)	100 kHz Strip Number	Peak Power (nW/100kHz)
1	127.072	6	99.422
2	164.556	7	76.596
3	116.885	8	73.572
4	102.928	9	69.422
5	94.785	10	63.333
<b>Total Peak Power:</b>		898.571 nW/MHz	

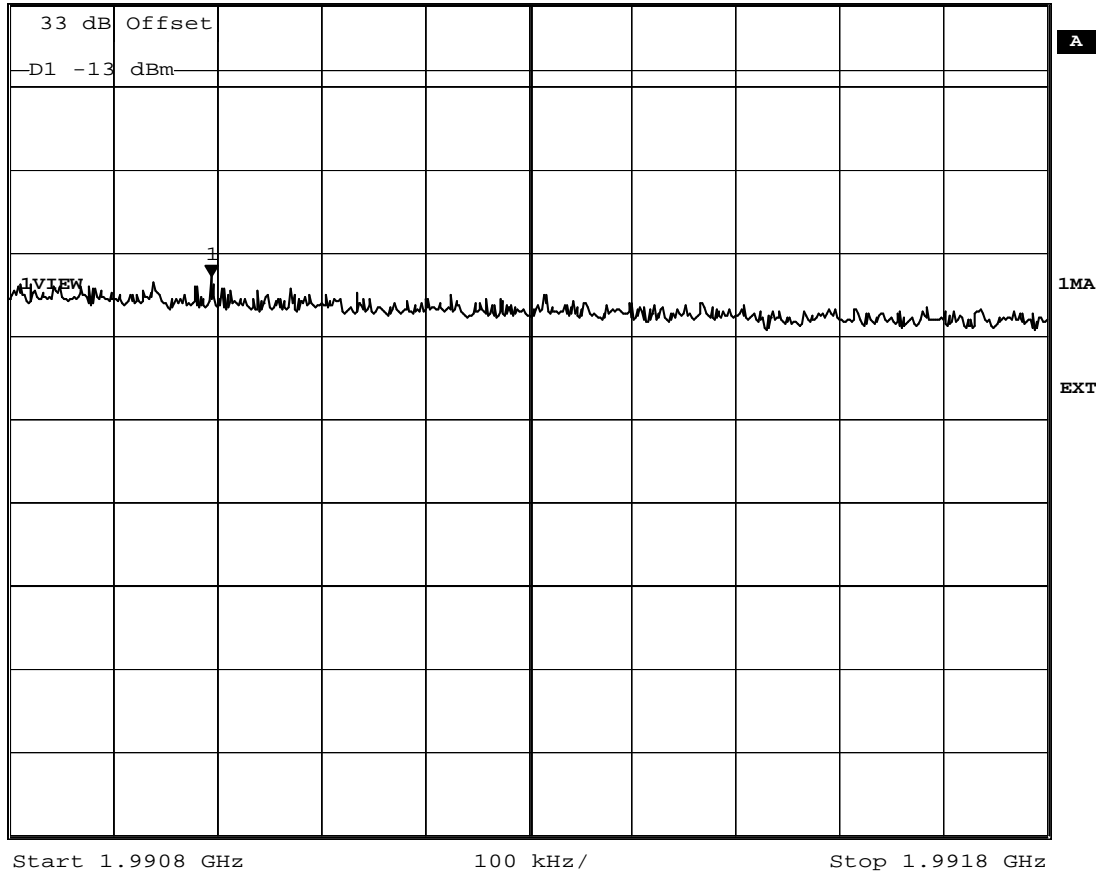
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1990.8 to 1991.8	-30.5	-13.0	17.5	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Marker 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	164.556 nW	VBW	300 kHz	
316.2 μW	1.99099439 GHz	SWT	5 ms	Unit W



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. Conducted Spurious Emissions. GMSK TX2/TX3. 33.5dBm. Integration Plot. FCC Part 24.238.  
 Date: 26.JUL.2006 15:57:00

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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**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.

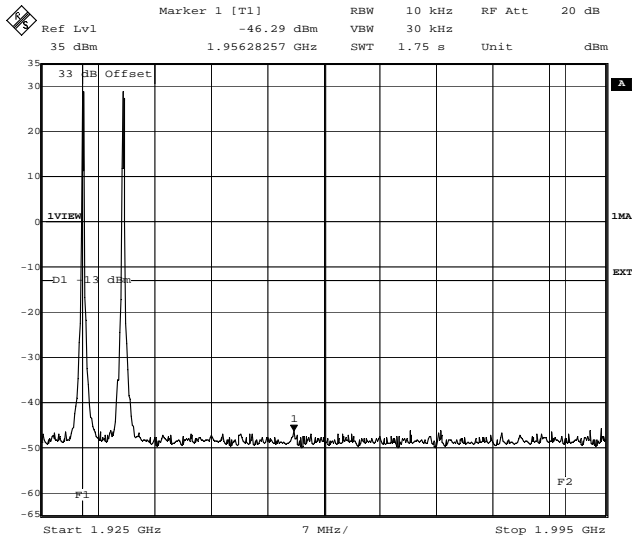
7.8.2. Tests were performed to identify the level of any Intermodulation responses present.

**Results: 8PSK, TX0 and TX1**

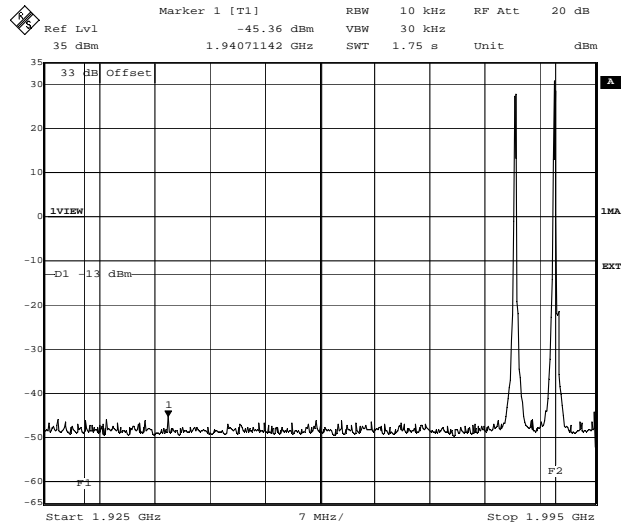
TX	Channel pair	Peak Power Emission (dBm)	Frequency (MHz)	Limit (dBm)	Margin (dB)	Result
TX0/TX1	512 & 537	-46.2	1956.28257	-13.0	33.2	Complied
TX0/TX1	810 & 785	-45.3	1940.71142	-13.0	32.3	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. TX Inband Intermodulation. 8PSK TX0/TX1. 30.2dB  
 m. FCC Part 24.238.  
 Date: 27.JUL.2006 09:16:12



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. TX Inband Intermodulation. 8PSK TX0/TX1. 30.2dB  
 m. FCC Part 24.238.  
 Date: 27.JUL.2006 09:44:27



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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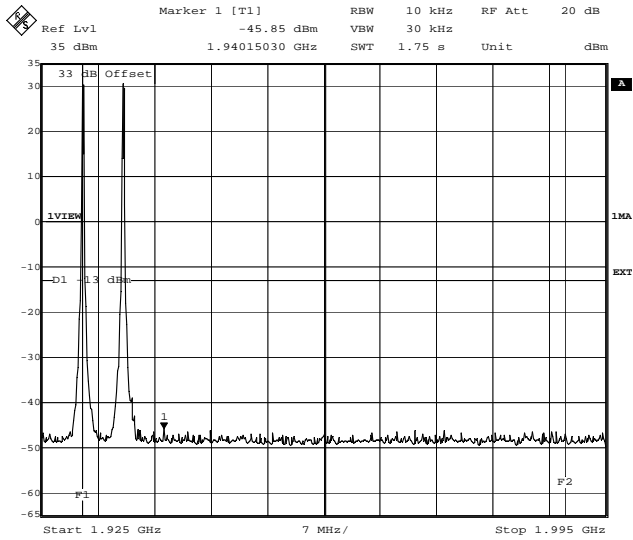
**Transmitter Conducted Intermodulation Responses: Section 2.1051/24.238 (a) (Continued)**

**Results: GMSK, TX0 and TX1**

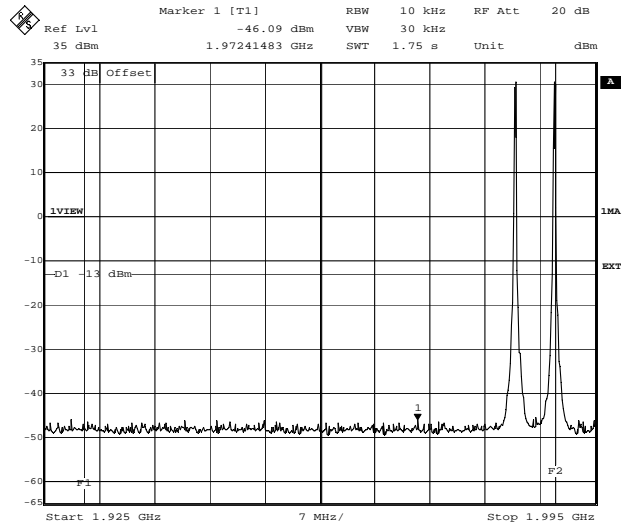
TX	Channel pair	Peak Power Emission (dBm)	Frequency (MHz)	Limit (dBm)	Margin (dB)	Result
TX0/TX1	512 & 537	-45.8	1940.15030	-13.0	32.8	Complied
TX0/TX1	810 & 785	-46.0	1972.41483	-13.0	33.0	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. TX Inband Intermodulation. GMSK TX0/TX1. 33.5dBm. FCC Part 24.238.  
 Date: 26.JUL.2006 10:24:41



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. TX Inband Intermodulation. GMSK TX0/TX1. 33.5dBm. FCC Part 24.238.  
 Date: 26.JUL.2006 13:39:48

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

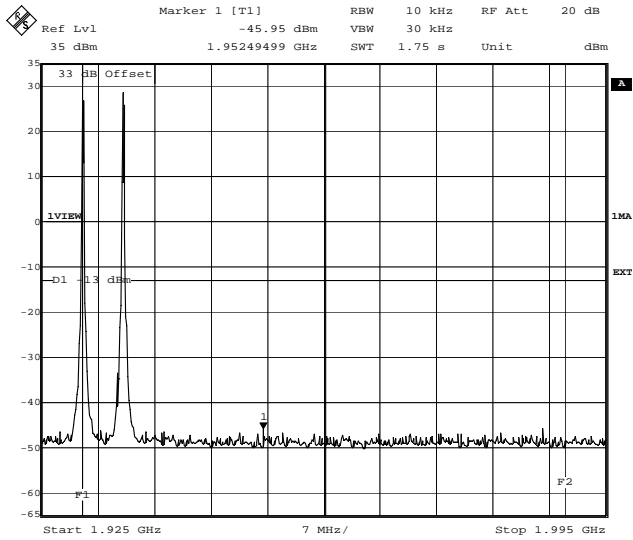
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**Results: 8PSK, TX2 and TX3**

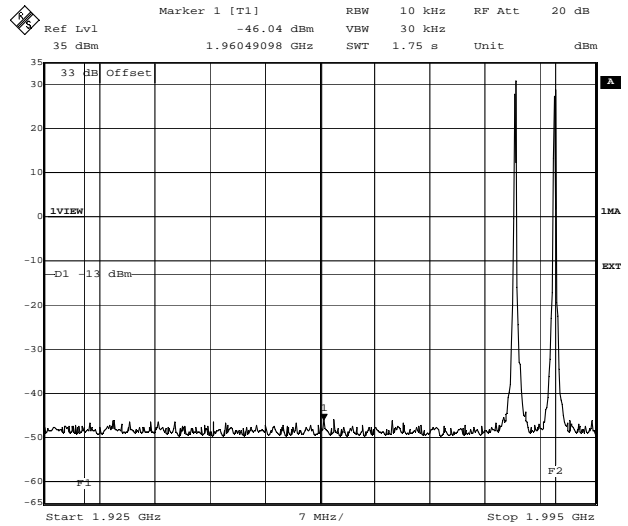
TX	Channel pair	Peak Power Emission (dBm)	Frequency (MHz)	Limit (dBm)	Margin (dB)	Result
TX2/TX3	512 & 537	-45.9	1952.49499	-13.0	32.9	Complied
TX2/TX3	810 & 785	-46.0	1960.49098	-13.0	33.0	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH512 & 537. TX Inband Intermodulation. 8PSK TX2/TX3. 30.2dB  
m. FCC Part 24.238.  
Date: 27.JUL.2006 11:02:20



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
Comment A: CH810 & 785. TX Inband Intermodulation. 8PSK TX2/TX3. 30.2dB  
m. FCC Part 24.238.  
Date: 27.JUL.2006 12:20:39

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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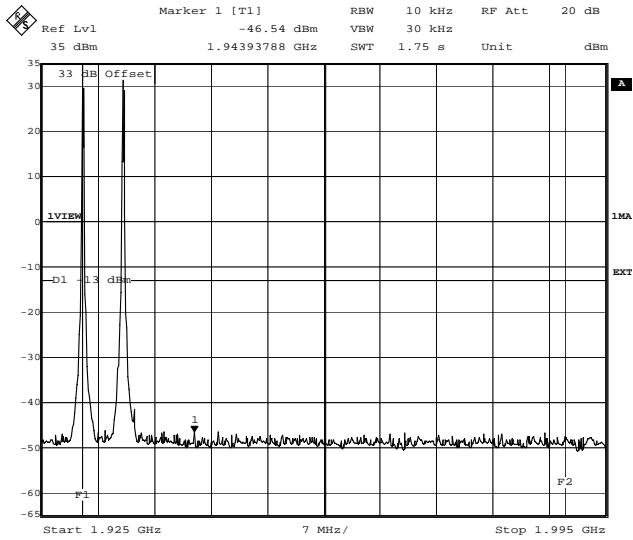
**Transmitter Conducted Intermodulation Responses: Section 2.1051/24.238 (a) (Continued)**

**Results: GMSK, TX2 and TX3**

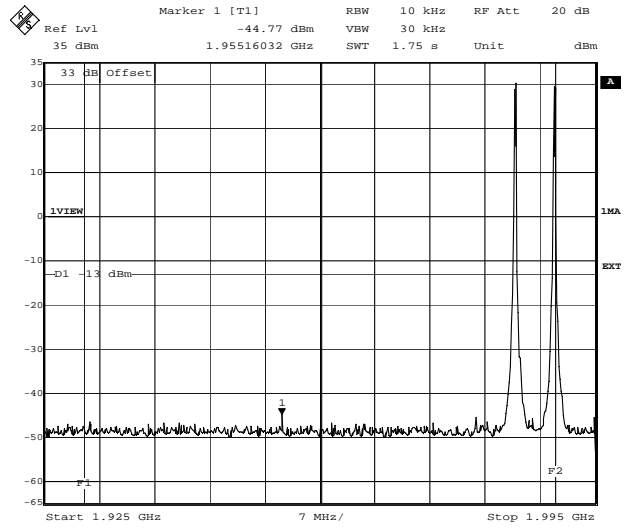
TX	Channel pair	Peak Power Emission (dBm)	Frequency (MHz)	Limit (dBm)	Margin (dB)	Result
TX2/TX3	512 & 537	-46.5	1943.93788	-13.0	33.5	Complied
TX2/TX3	810 & 785	-44.7	1955.16032	-13.0	31.7	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512 & 537. TX Inband Intermodulation. GMSK TX2/TX3. 33.5dBm. FCC Part 24.238.  
 Date: 26.JUL.2006 14:47:13



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810 & 785. TX Inband Intermodulation. GMSK TX2/TX3. 33.5dBm. FCC Part 24.238.  
 Date: 26.JUL.2006 15:55:33

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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### **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.

#### **Results: 8PSK – TX0**

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

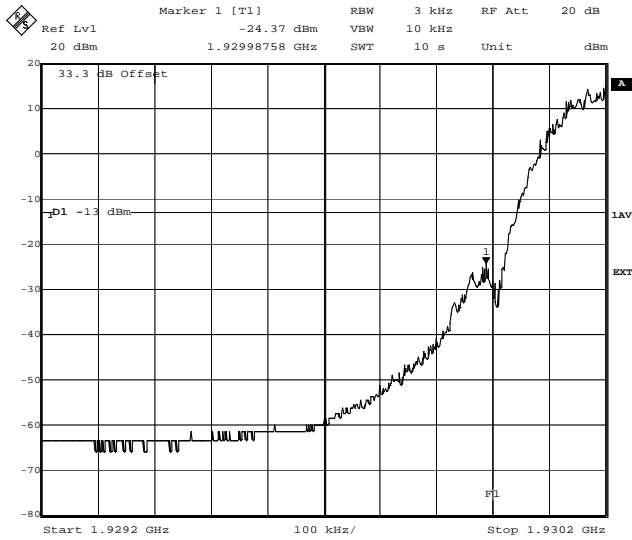
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	30.2	512	-24.3	-13.0	11.3	Complied

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

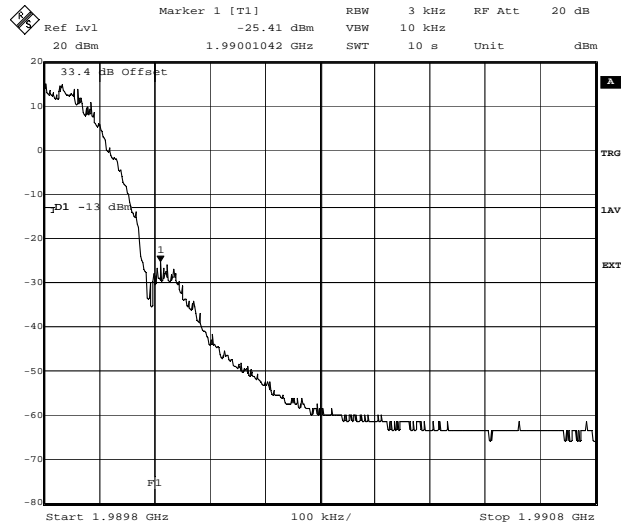
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	30.2	810	-25.4	-13.0	12.4	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
Comment A: CH512, +30.2dBm, OBW Band Edge, 8PSK TX0, FCC Part 24.238.  
Date: 25.JUL.2006 11:26:51



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
Comment A: CH810, +30.2dBm, OBW Band Edge, 8PSK TX0, FCC Part 24.238  
Date: 25.JUL.2006 11:30:08



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: 8PSK – TX1**

**Lower Band Edge**

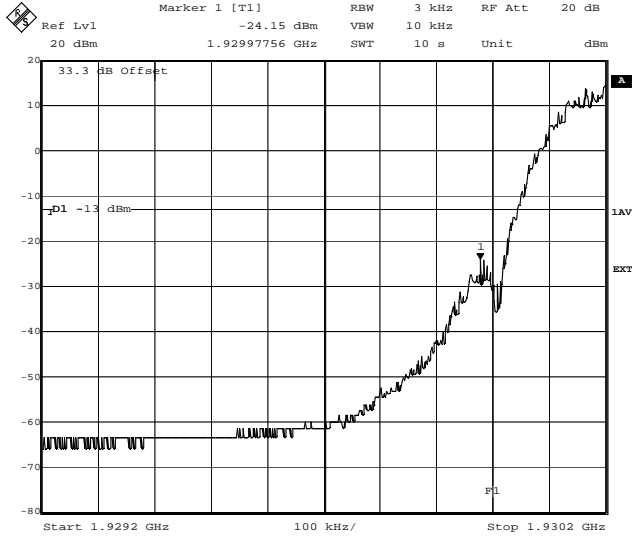
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	30.2	512	-24.1	-13.0	11.1	Complied

**Upper Band Edge**

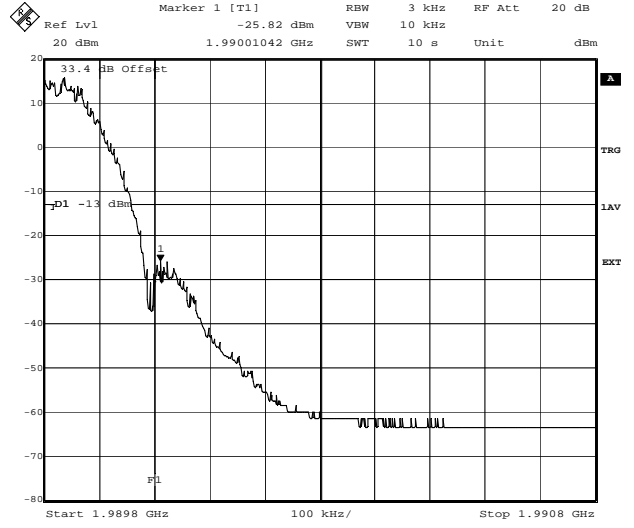
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	30.2	810	-25.8	-13.0	12.8	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +30.2dBm, OBW Band Edge, 8PSK TX1, FCC Part 24.238.  
 Date: 25.JUL.2006 13:39:29



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +30.2dBm, OBW Band Edge, 8PSK TX1, FCC Part 24.238  
 Date: 25.JUL.2006 13:42:28

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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**Results: 8PSK – TX2**

**Lower Band Edge**

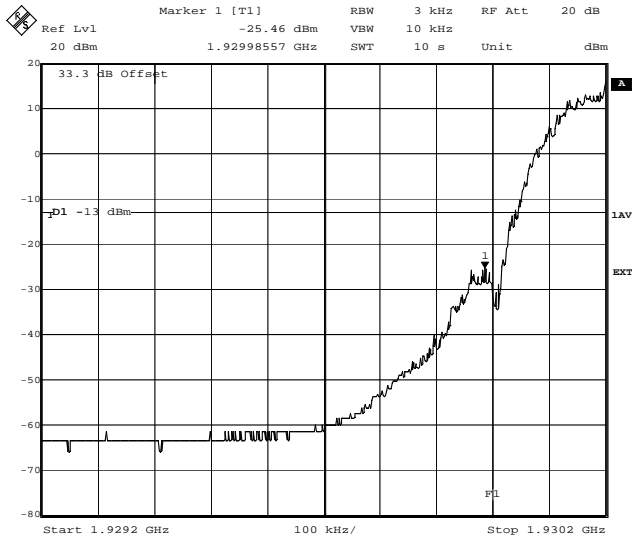
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	30.2	512	-25.4	-13.0	12.4	Complied

**Upper Band Edge**

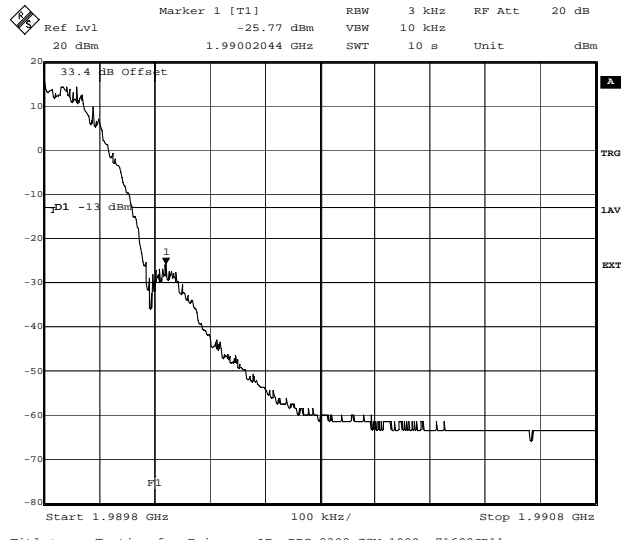
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	30.2	810	-25.7	-13.0	12.7	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH512, +30.2dBm, OBW Band Edge, 8PSK TX2, FCC Part 24.238.  
 Date: 25.JUL.2006 14:42:12



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
 Comment A: CH810, +30.2dBm, OBW Band Edge, 8PSK TX2, FCC Part 24.238  
 Date: 25.JUL.2006 14:45:13

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: 8PSK – TX3**

**Lower Band Edge**

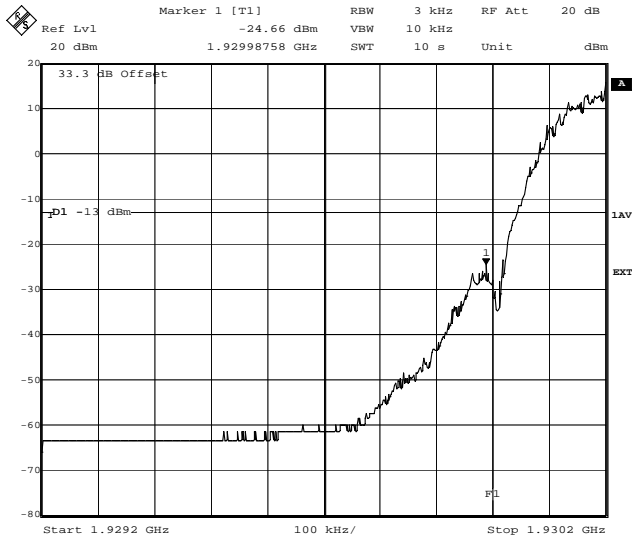
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	30.2	512	-24.6	-13.0	11.6	Complied

**Upper Band Edge**

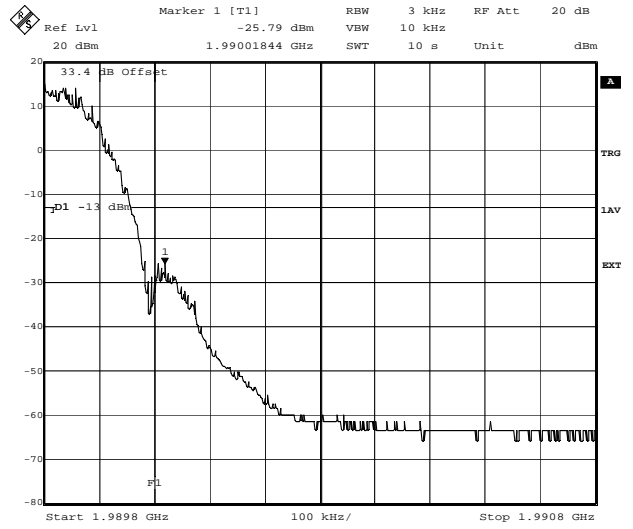
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	30.2	810	-25.7	-13.0	12.7	Complied

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
Comment A: CH512, +30.2dBm, OBW Band Edge, 8PSK TX3, FCC Part 24.238.  
Date: 25.JUL.2006 15:18:58



Title: Testing for Ericsson AB, RBS 2308 GSM 1900, 71622JD11.  
Comment A: CH810, +30.2dBm, OBW Band Edge, 8PSK TX3, FCC Part 24.238  
Date: 25.JUL.2006 15:21:50

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: GMSK – TX0**

**Lower Band Edge**

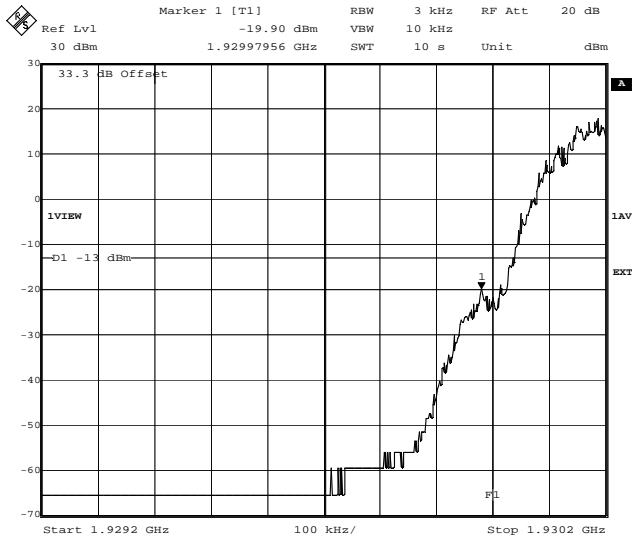
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	33.5	512	-19.9	-13.0	6.9	Complied

**Upper Band Edge**

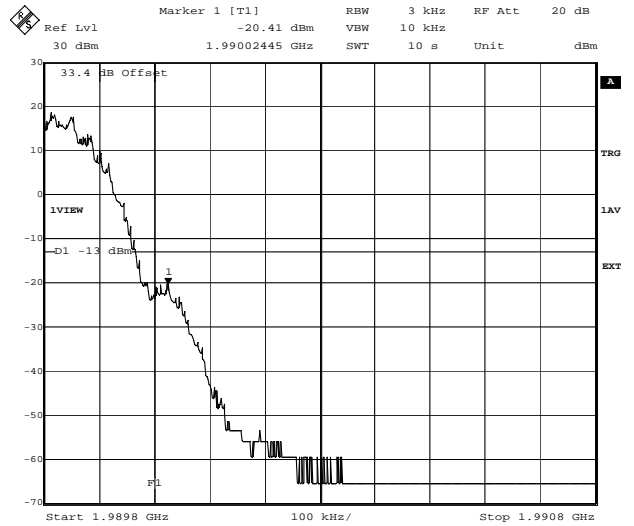
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	33.5	810	-20.4	-13.0	7.4	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512. +33.5dBm. OBW Band Edge. GMSK TX0. FCC Part 24.238.  
 Date: 25.JUL.2006 10:58:00



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810. +33.5dBm. OBW Band Edge. GMSK TX0. FCC Part 24.238  
 Date: 25.JUL.2006 10:59:38



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: GMSK – TX1**

**Lower Band Edge**

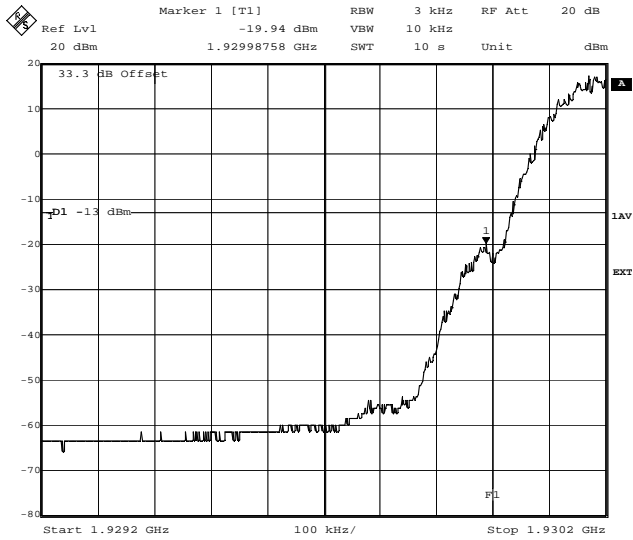
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	33.5	512	-19.9	-13.0	6.9	Complied

**Upper Band Edge**

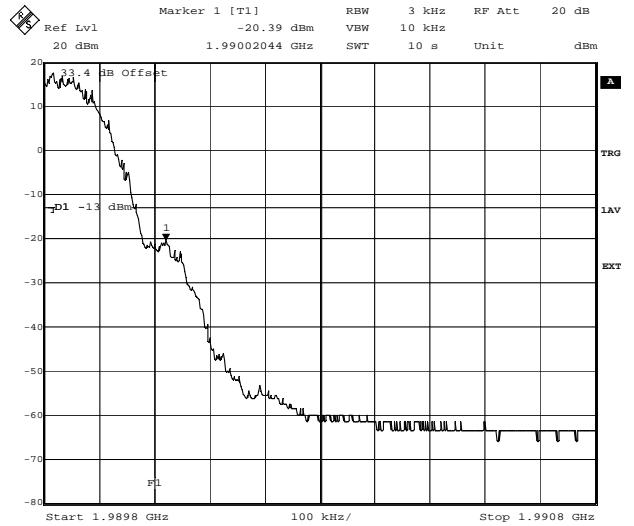
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	33.5	810	-20.3	-13.0	7.3	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512. +33.5dBm. OBW Band Edge. GMSK TX1. FCC Part 24.238.  
 Date: 25.JUL.2006 13:19:34



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810. +33.5dBm. OBW Band Edge. GMSK TX1. FCC Part 24.238  
 Date: 25.JUL.2006 13:29:35

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: GMSK – TX2**

**Lower Band Edge**

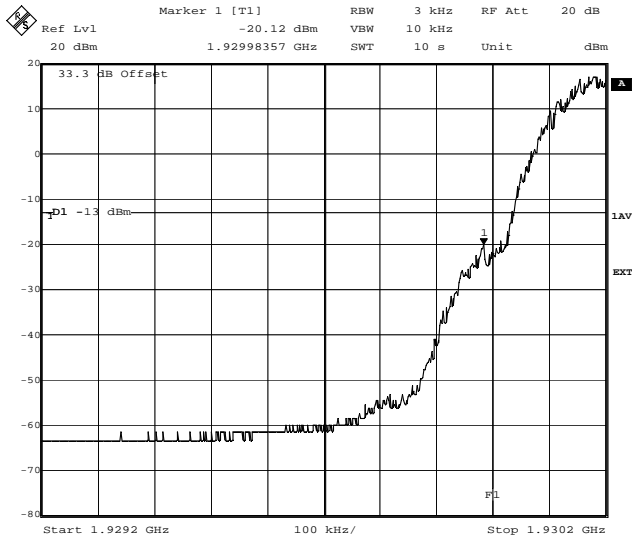
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	33.5	512	-20.1	-13.0	7.1	Complied

**Upper Band Edge**

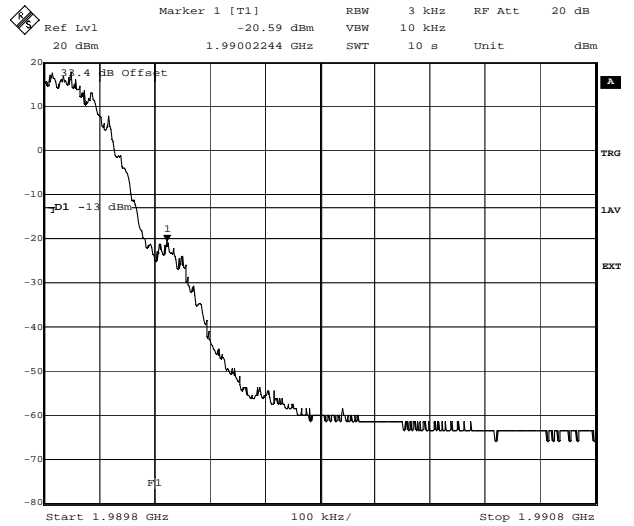
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	33.5	810	-20.5	-13.0	7.5	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512. +33.5dBm. OBW Band Edge. GMSK TX2. FCC Part 24.238.  
 Date: 25.JUL.2006 14:32:18



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810. +33.5dBm. OBW Band Edge. GMSK TX2. FCC Part 24.238  
 Date: 25.JUL.2006 14:35:10

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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

**Results: GMSK – TX3**

**Lower Band Edge**

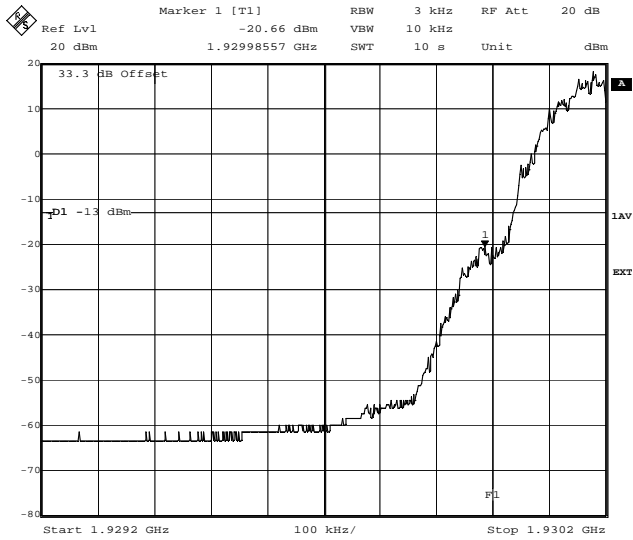
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1930.0	33.5	512	-20.6	-13.0	7.6	Complied

**Upper Band Edge**

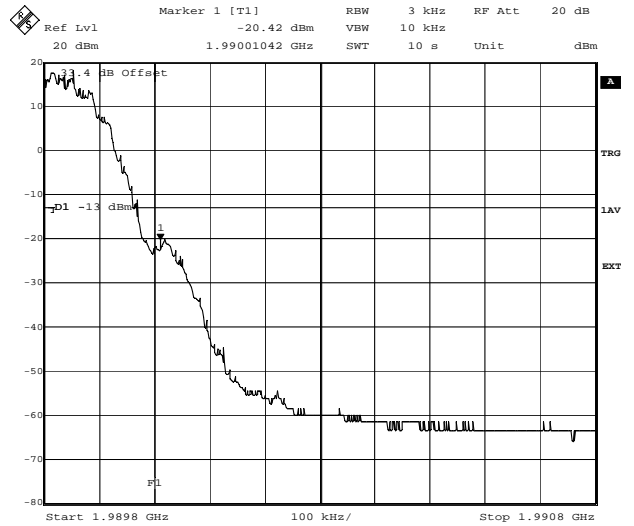
Frequency (MHz)	Output Power (dBm)	ARFCN	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1990.0	33.5	810	-20.4	-13.0	7.4	Complied

Test Of: Ericsson AB  
 RBS 2308 1900 MHz  
 To: FCC Part 24: 2005

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



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH512. +33.5dBm. OBW Band Edge. GMSK TX3. FCC Part 24.238.  
 Date: 25.JUL.2006 15:09:40



Title: Testing for Ericsson AB. RBS 2308 GSM 1900. 71622JD11.  
 Comment A: CH810. +33.5dBm. OBW Band Edge. GMSK TX3. FCC Part 24.238  
 Date: 25.JUL.2006 15:12:09

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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## **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.

*Note: the limits on all the following graphs are those stated in FCC Part 15. Using the formula  $P = (V/m \times d)^2/30$  which gives a conversion factor of -97.4 dB below 1GHz and -95.2 dB above 1GHz, the field strength limits are equivalent to the following ERP limits:*

*Quasi-peak limits, 30 to 88 MHz, 40 dB $\mu$ V/m = -55.2 dBm*

*Quasi-peak limits, 88 to 216 MHz, 43.5 dB $\mu$ V/m = -51.7 dBm*

*Quasi-peak limits, 216 to 960 MHz, 46 dB $\mu$ V/m = -49.2 dBm*

*Quasi-peak limits, 960 to 1000 MHz, 54 dB $\mu$ V/m = -41.2 dBm*

*Average limit above 1000 MHz, 54 dB $\mu$ V/m = -43.4 dBm*

*Average limit above 1000 MHz, 54 dB $\mu$ V/m = -23.4 dBm*

***These limits are more stringent than the -13dBm EIRP.***

### **Results:**

Excluding the fundamental emissions, all other indicated spurious and intermodulation responses were at least 10 dB below the relevant -13dBm limit; therefore no final measurements were performed.

Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

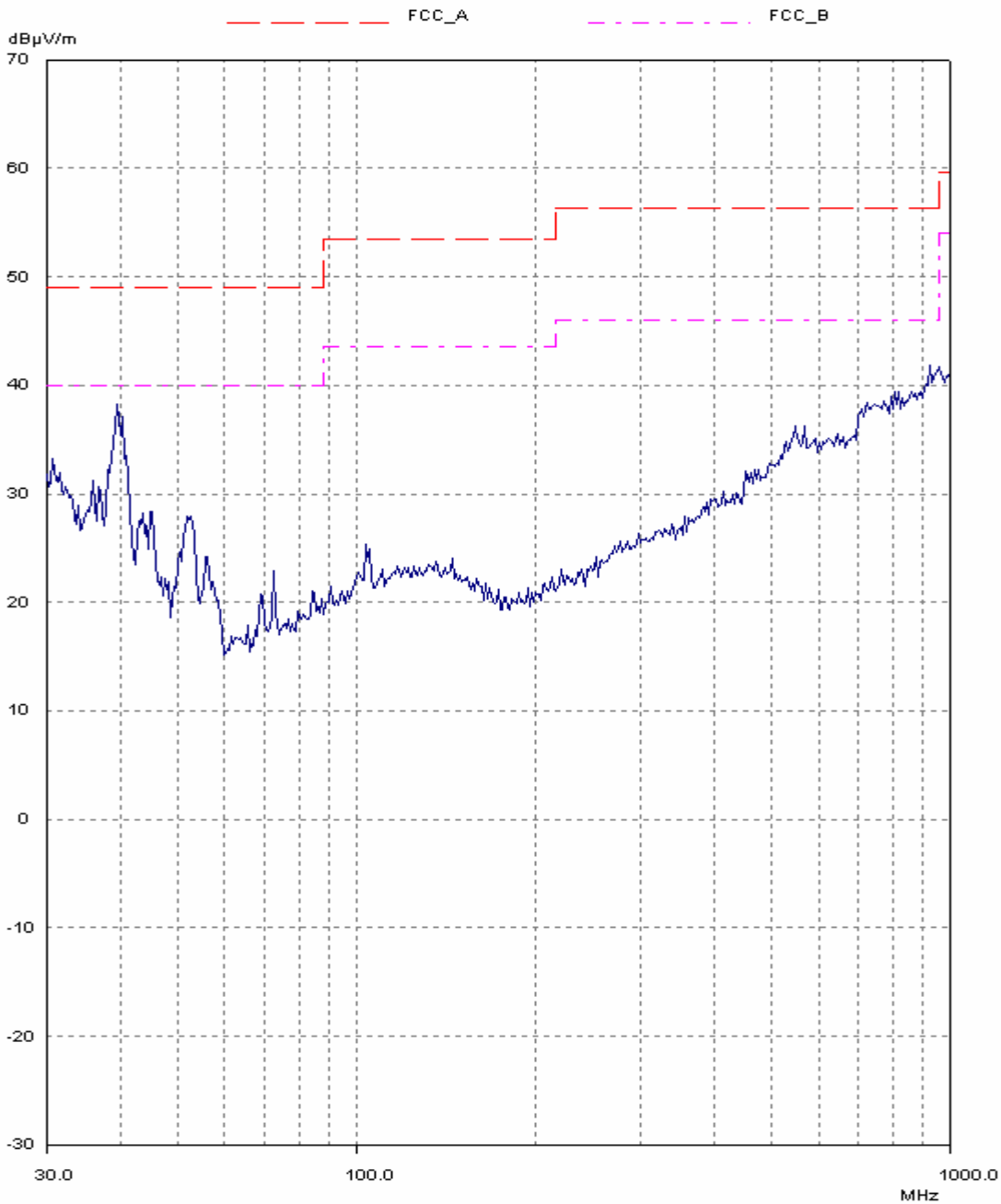
**Transmitter Radiated Emissions: Section 2.1053/24.238 (a) (Continued)**

Graph Reference Number	Title
GPH\71622JD11\001	Radiated Emissions Pre-Scan (30.0 MHz to 1000.0 MHz) 115V AC Powered
GPH\71622JD11\002	Radiated Emissions Pre-Scan (1000.0 MHz to 2000.0 MHz) 115V AC Powered
GPH\71622JD11\003	Radiated Emissions Pre-Scan (2000.0 MHz to 4000.0 MHz) 115V AC Powered
GPH\71622JD11\004	Radiated Emissions Pre-Scan (4000.0 MHz to 6000.0 MHz) 115V AC Powered
GPH\71622JD11\005	Radiated Emissions Pre-Scan (6000.0 MHz to 8000.0 MHz) 115V AC Powered
GPH\71622JD11\006	Radiated Emissions Pre-Scan (8000.0 MHz to 12000.0 MHz) 115V AC Powered
GPH\71622JD11\007	Radiated Emissions Pre-Scan (12000.0 MHz to 18000.0 MHz) 115V AC Powered
GPH\71622JD11\008	Radiated Emissions Pre-Scan (18000.0 MHz to 20000.0 MHz) 115V AC Powered
GPH\71622JD11\009	Radiated Emissions Pre-Scan (30.0 MHz to 1000.0 MHz) -48V DC Powered
GPH\71622JD11\010	Radiated Emissions Pre-Scan (1000.0 MHz to 2000.0 MHz) -48V DC Powered
GPH\71622JD11\011	Radiated Emissions Pre-Scan (2000.0 MHz to 4000.0 MHz) -48VDC Powered
GPH\71622JD11\012	Radiated Emissions Pre-Scan (4000.0 MHz to 6000.0 MHz) -48VDC Powered
GPH\71622JD11\013	Radiated Emissions Pre-Scan (6000.0 MHz to 8000.0 MHz) -48VDC Powered
GPH\71622JD11\014	Radiated Emissions Pre-Scan (8000.0 MHz to 12000.0 MHz) -48VDC Powered
GPH\71622JD11\015	Radiated Emissions Pre-Scan (12000.0 MHz to 18000.0 MHz) -48VDC Powered
GPH\71622JD11\016	Radiated Emissions Pre-Scan (18000.0 MHz to 20000.0 MHz) -48VDC Powered



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

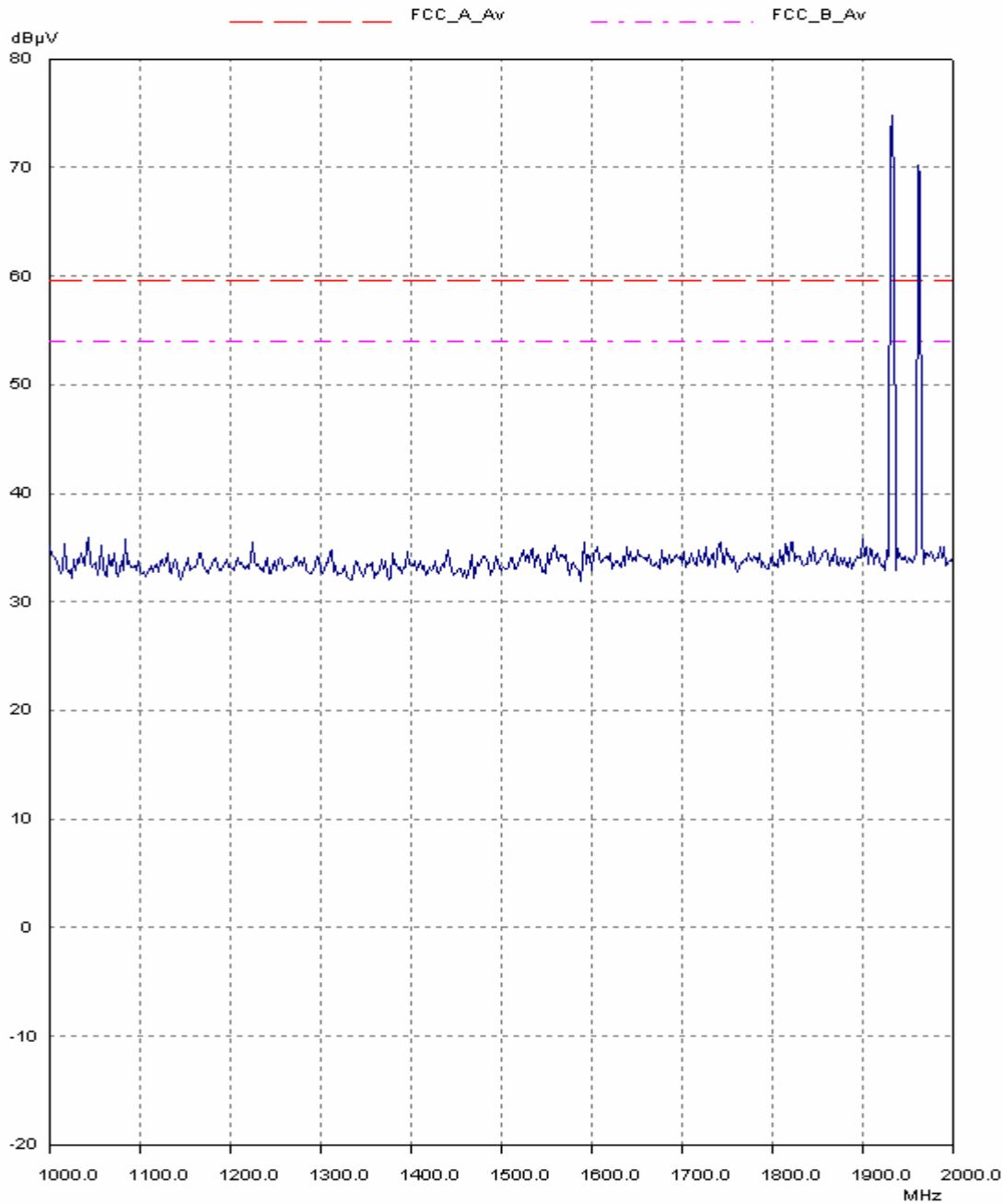
GPH\71622JD11\001  
Radiated Emissions Pre-Scan  
(30.0 MHz to 1000.0 MHz) 115V AC Powered



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

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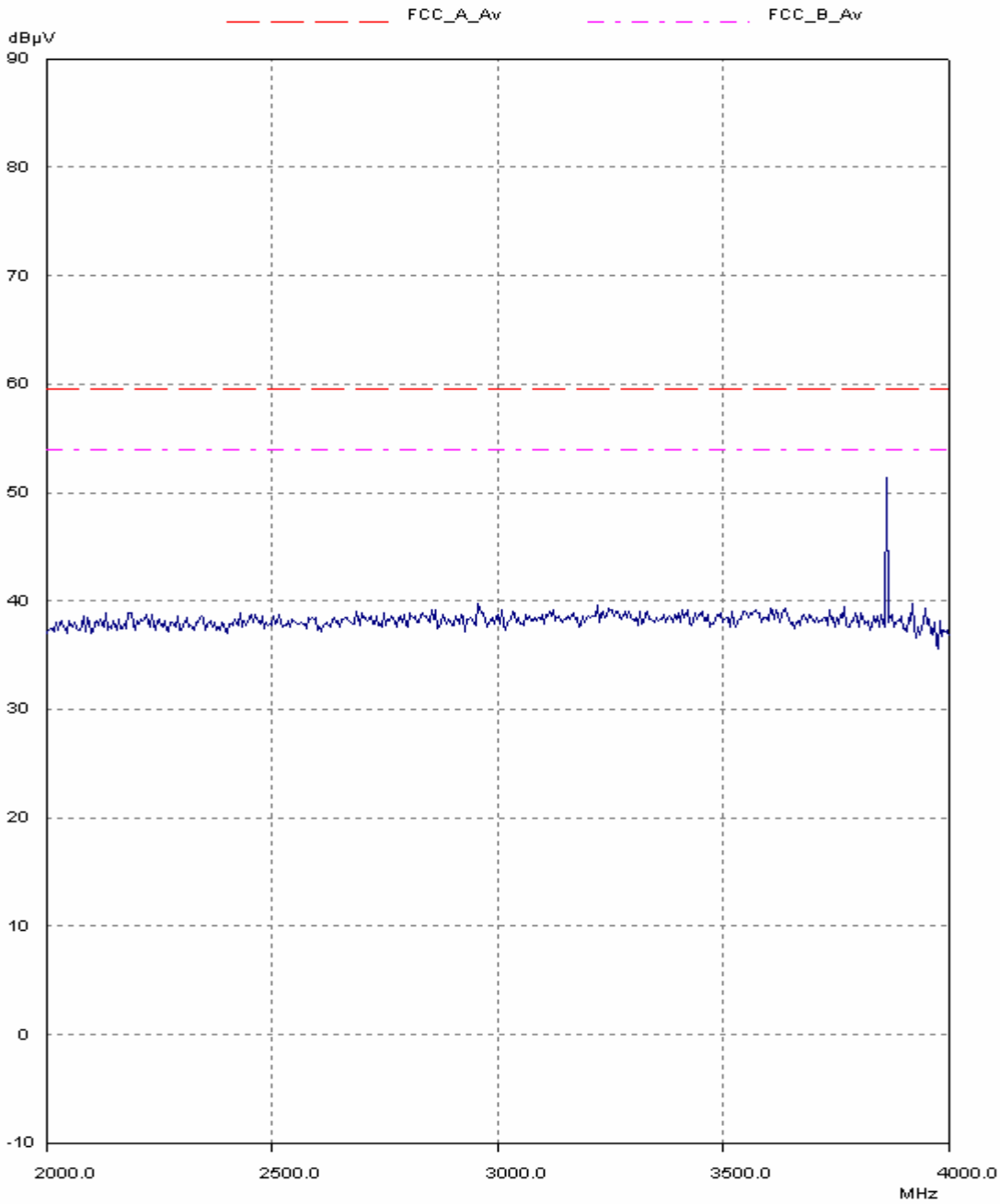
GPH\71622JD11\002  
Radiated Emissions Pre-Scan  
(1000.0 MHz to 2000.0 MHz) 115V AC Powered



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

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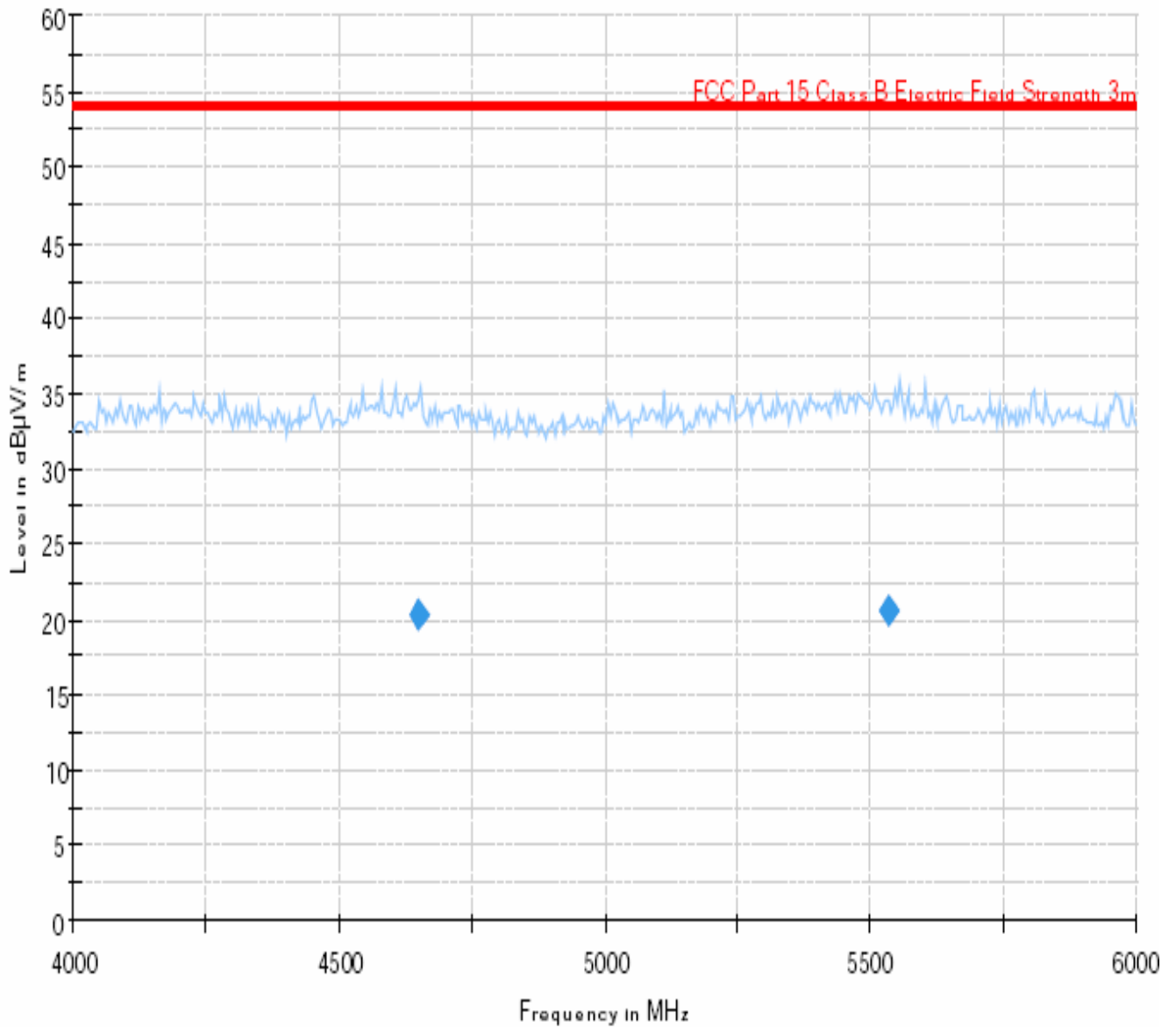
GPH\71622JD11\003  
Radiated Emissions Pre-Scan  
(2000.0 MHz to 4000.0 MHz) 115V AC Powered



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2005

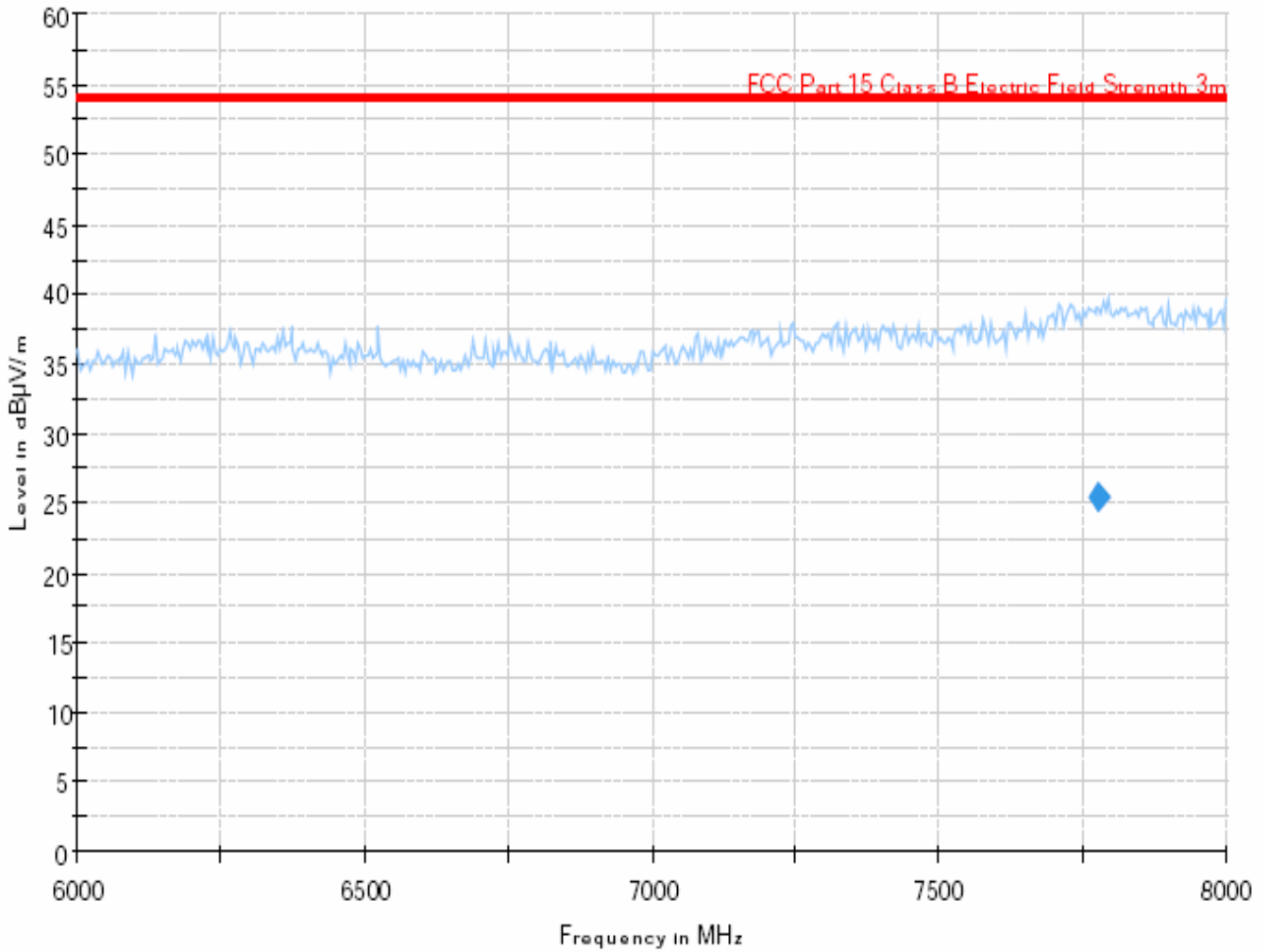
---

GPH\71622JD11\004  
Radiated Emissions Pre-Scan  
(4000.0 MHz to 6000.0 MHz) 115V AC Powered



Test Of: Ericsson AB  
RBS 2308 1900 MHz  
To: FCC Part 24: 2003

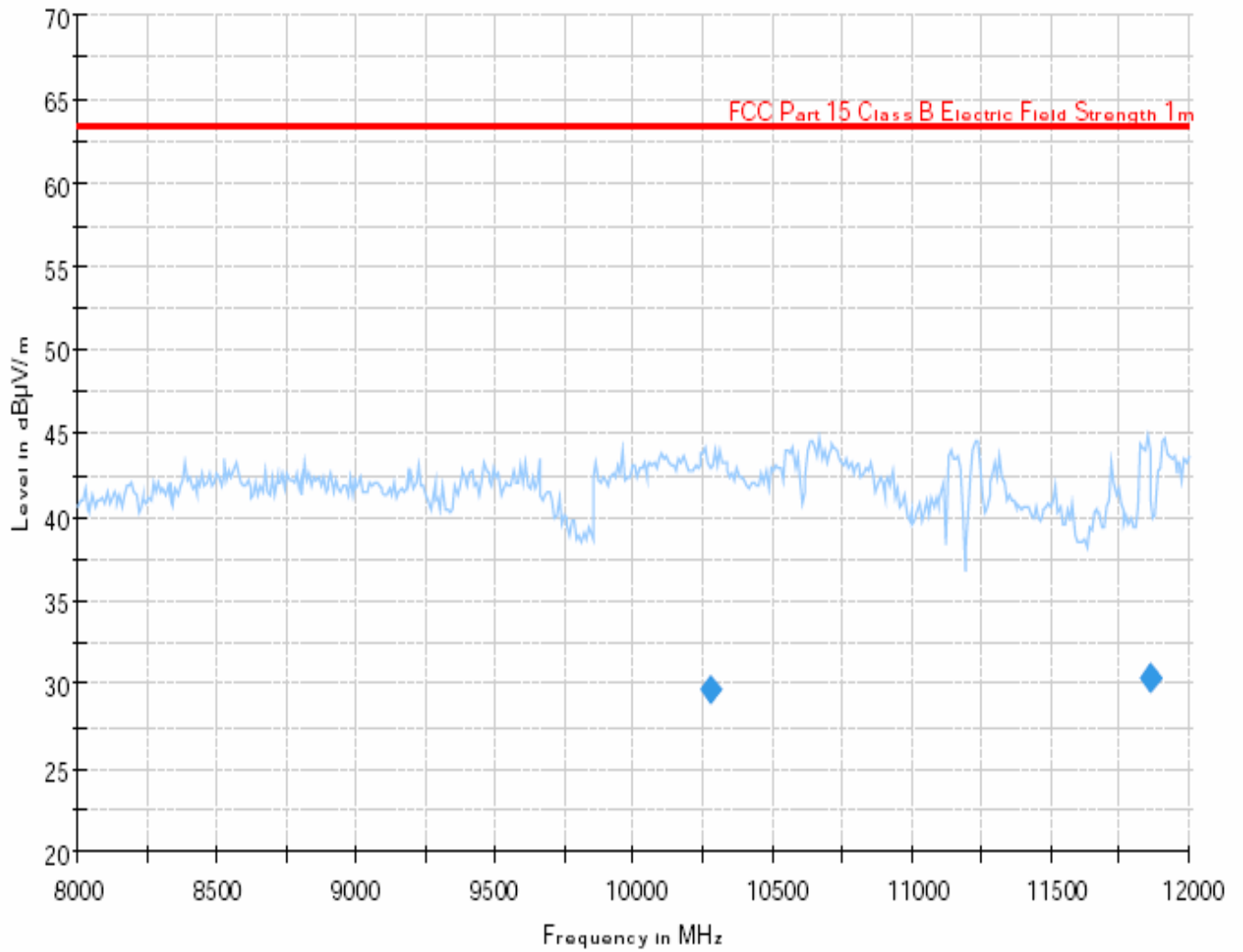
GPH\71622JD11\005  
Radiated Emissions Pre-Scan  
(6000.0 MHz to 8000.0 MHz) 115V AC Powered



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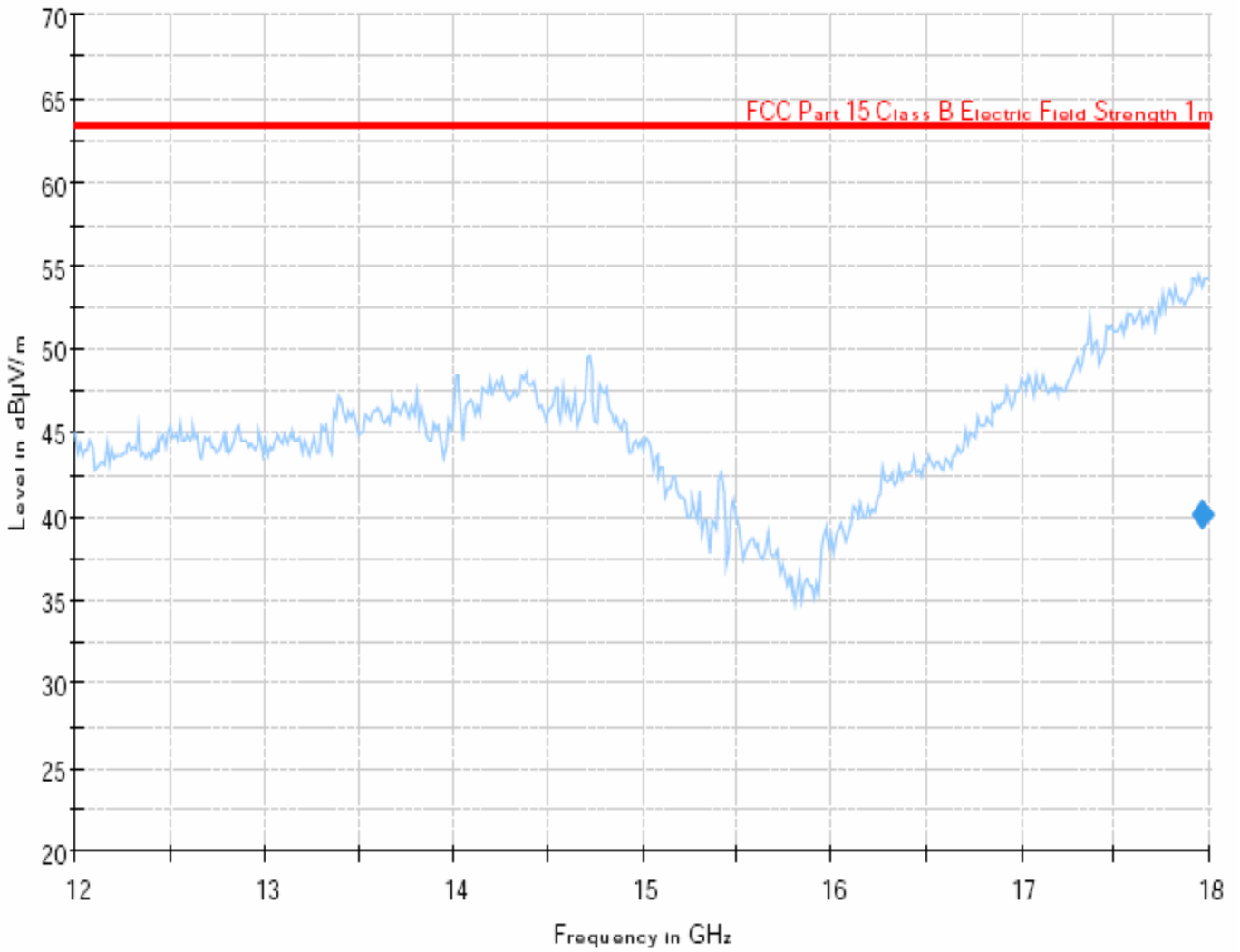
GPH\71622JD11\006  
Radiated Emissions Pre-Scan  
(8000.0 MHz to 12000.0 MHz) 115V AC Powered



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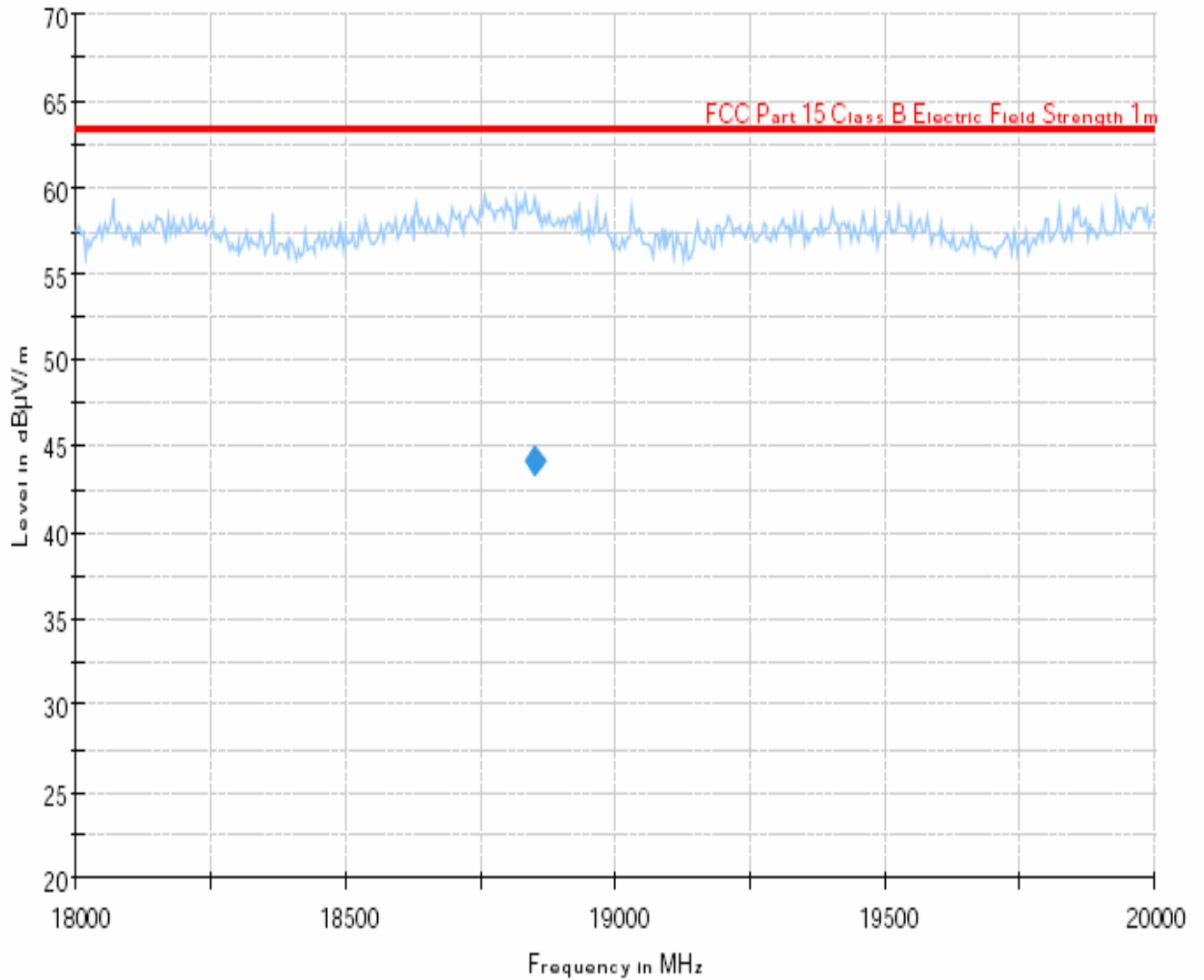
GPH\71622JD11\007  
Radiated Emissions Pre-Scan  
(12000.0 MHz to 18000.0 MHz) 115V AC Powered



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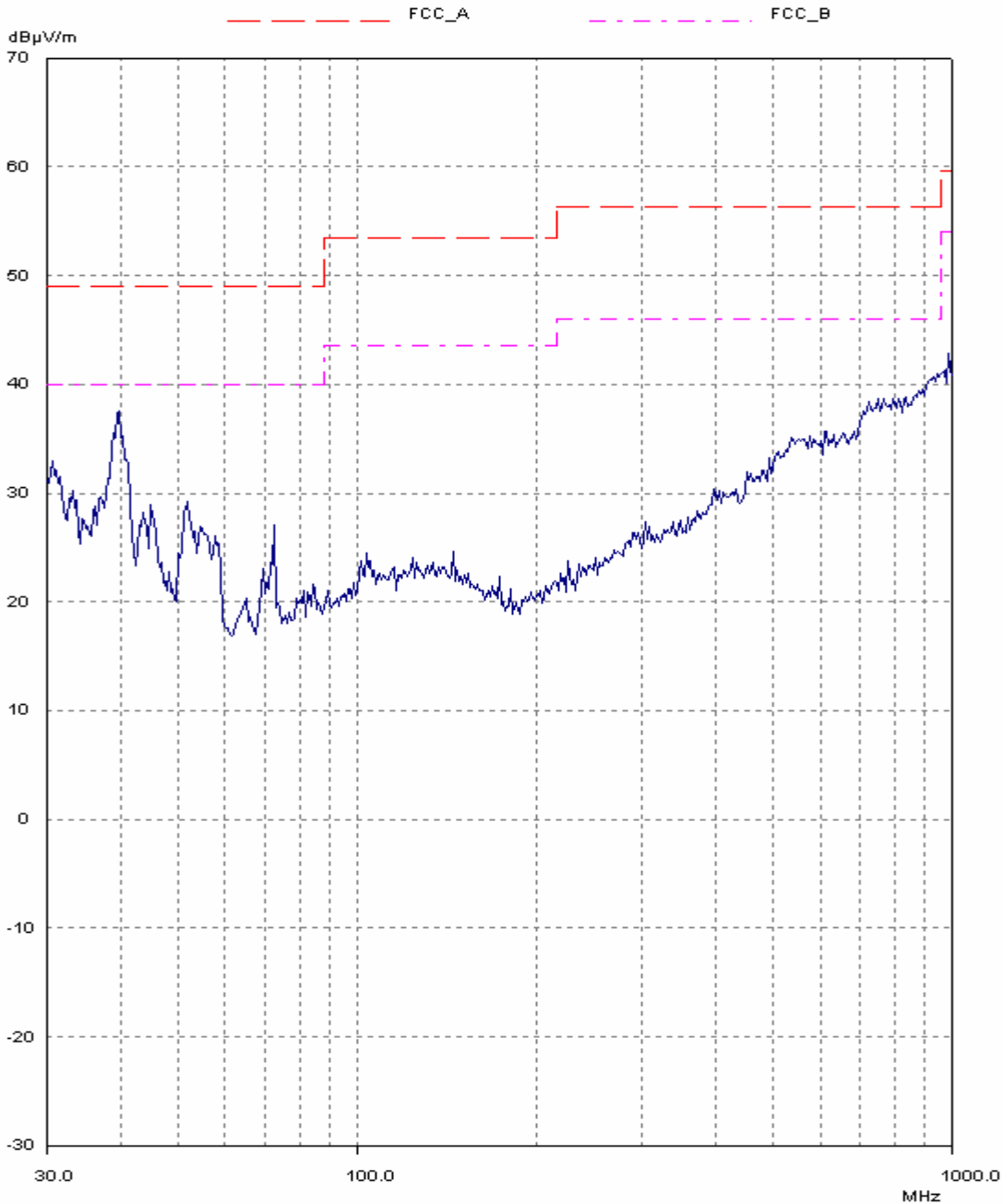
GPH\71622JD11\008  
Radiated Emissions Pre-Scan  
(18000.0 MHz to 20000.0 MHz) 115V AC Powered





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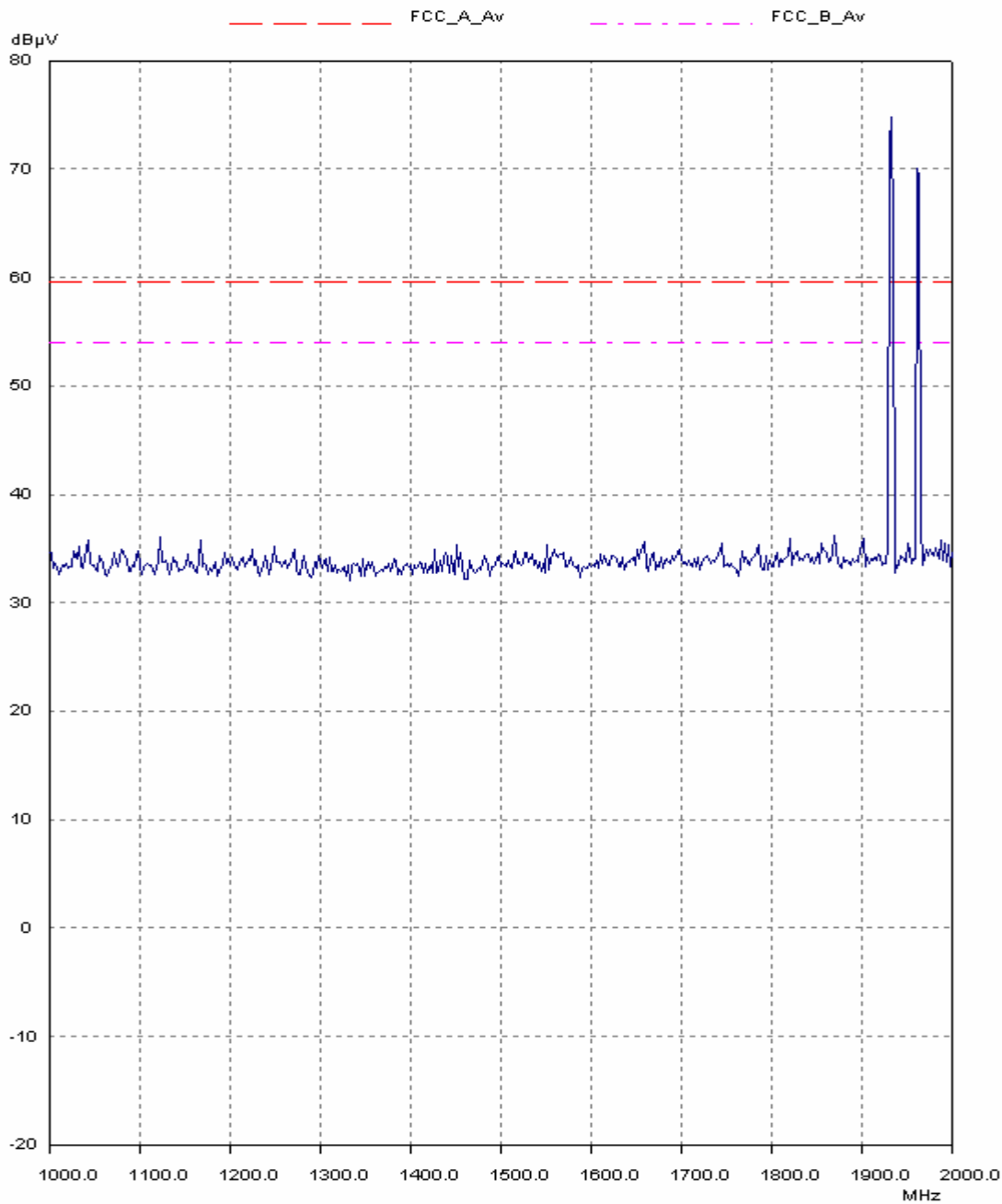
GPH\71622JD11\009  
Radiated Emissions Pre-Scan  
(30.0 MHz to 1000.0 MHz) -48V DC Powered



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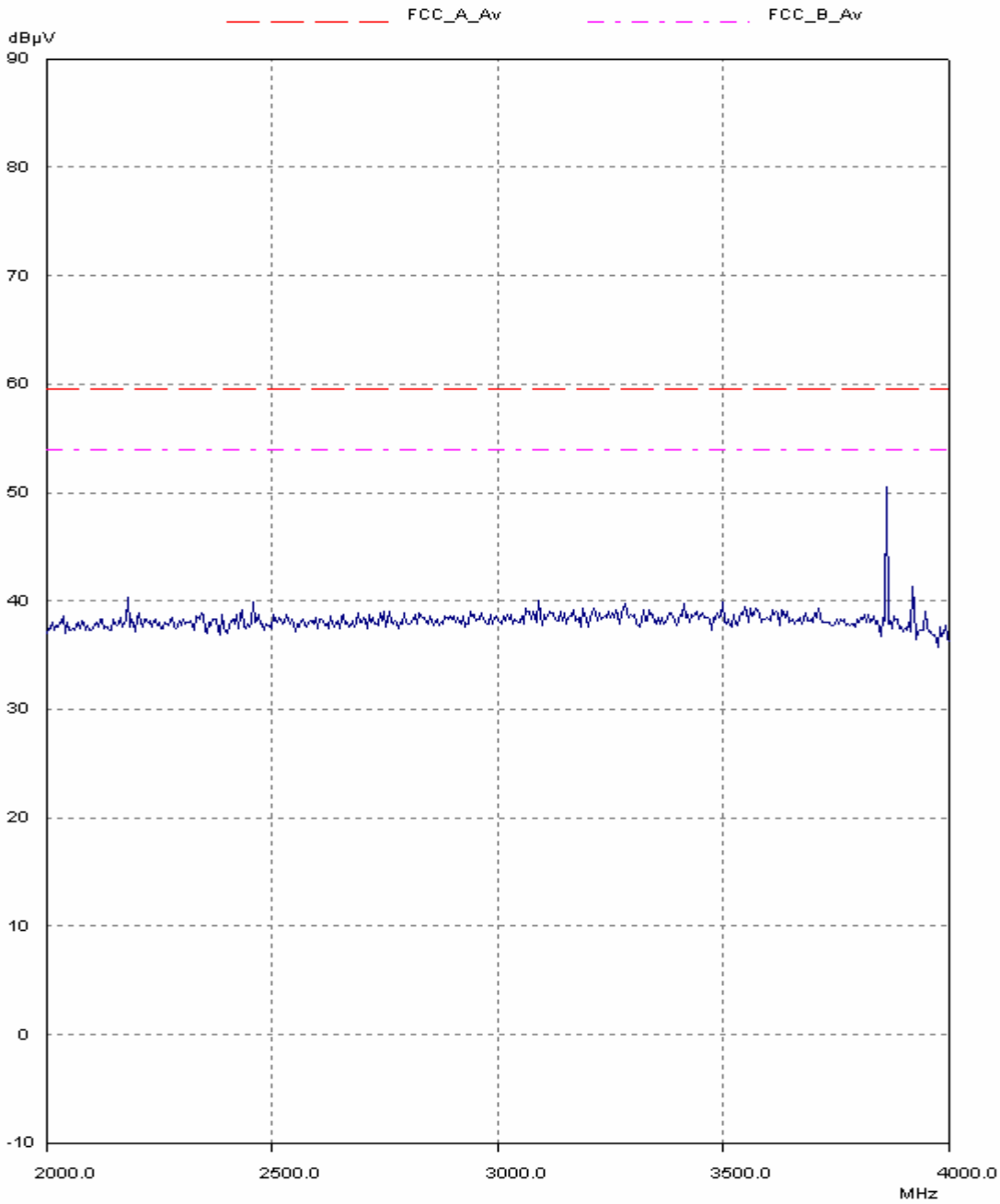
GPH\71622JD11\010  
Radiated Emissions Pre-Scan  
(1000.0 MHz to 2000.0 MHz) -48V DC Powered



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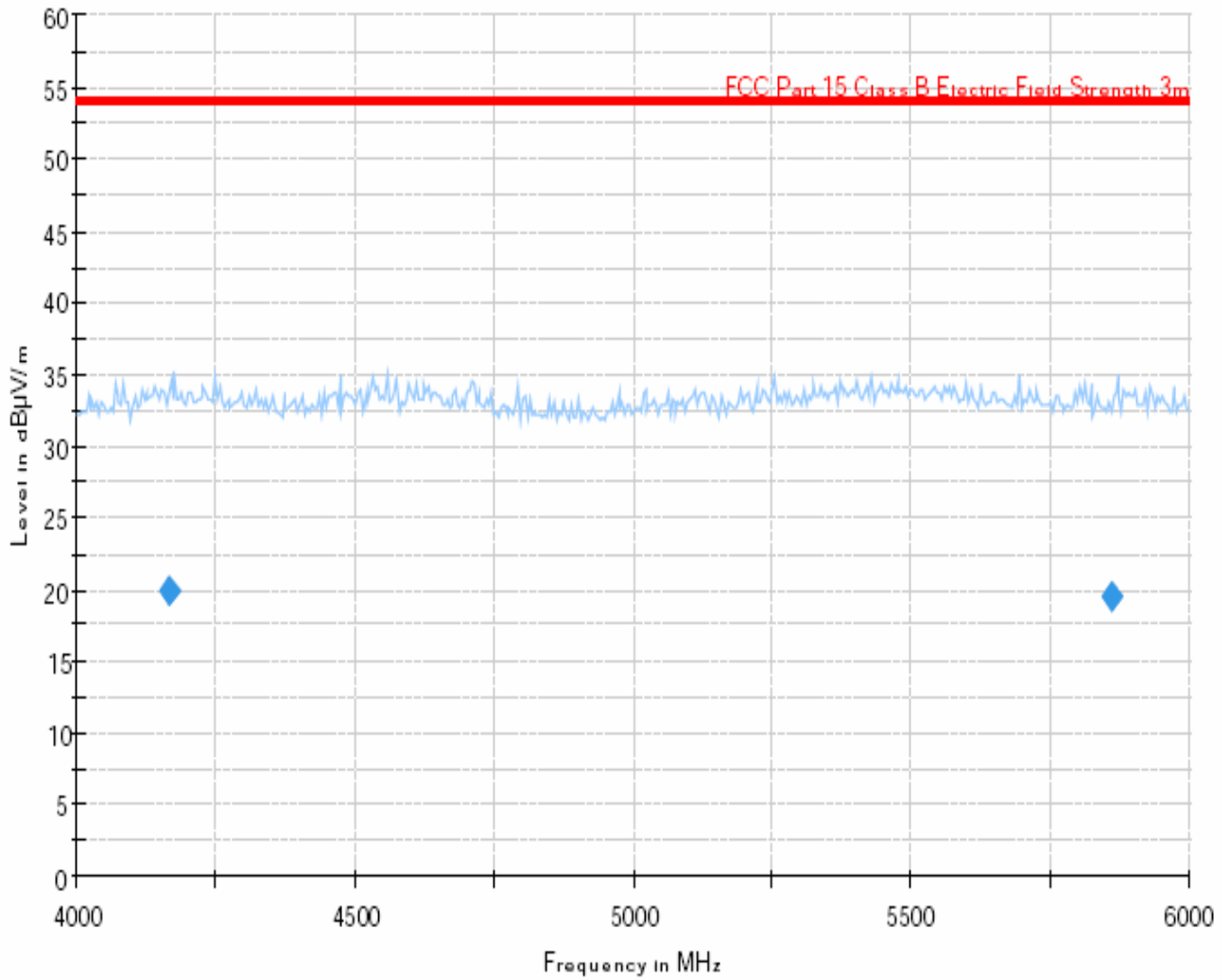
GPH\71622JD11\011  
Radiated Emissions Pre-Scan  
(2000.0 MHz to 4000.0 MHz) -48V DC Powered



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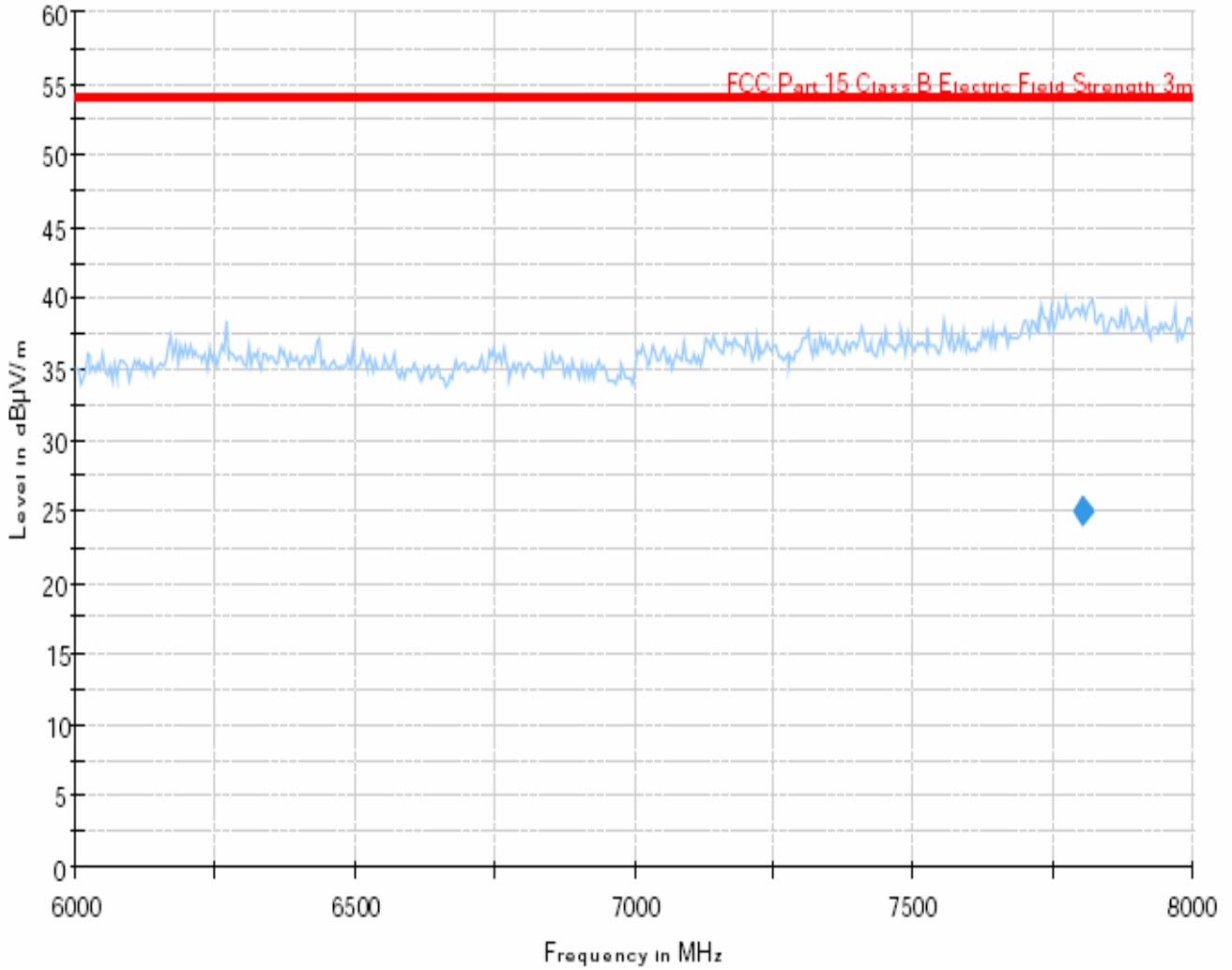
GPH\71622JD11\012  
Radiated Emissions Pre-Scan  
(4000.0 MHz to 6000.0 MHz) -48V DC Powered



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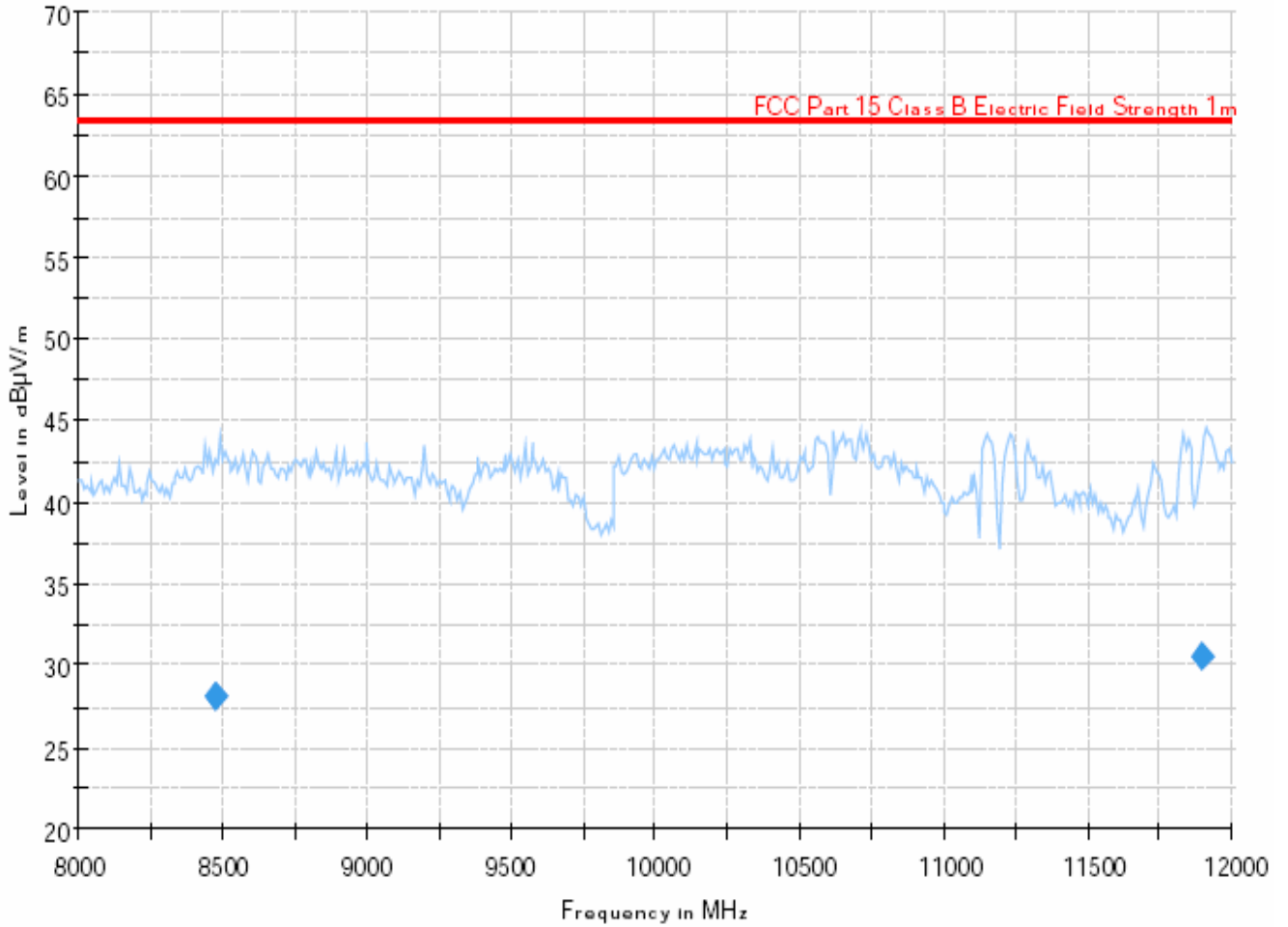
GPH\71622JD11\013  
Radiated Emissions Pre-Scan  
(6000.0 MHz to 8000.0 MHz) -48V DC Powered



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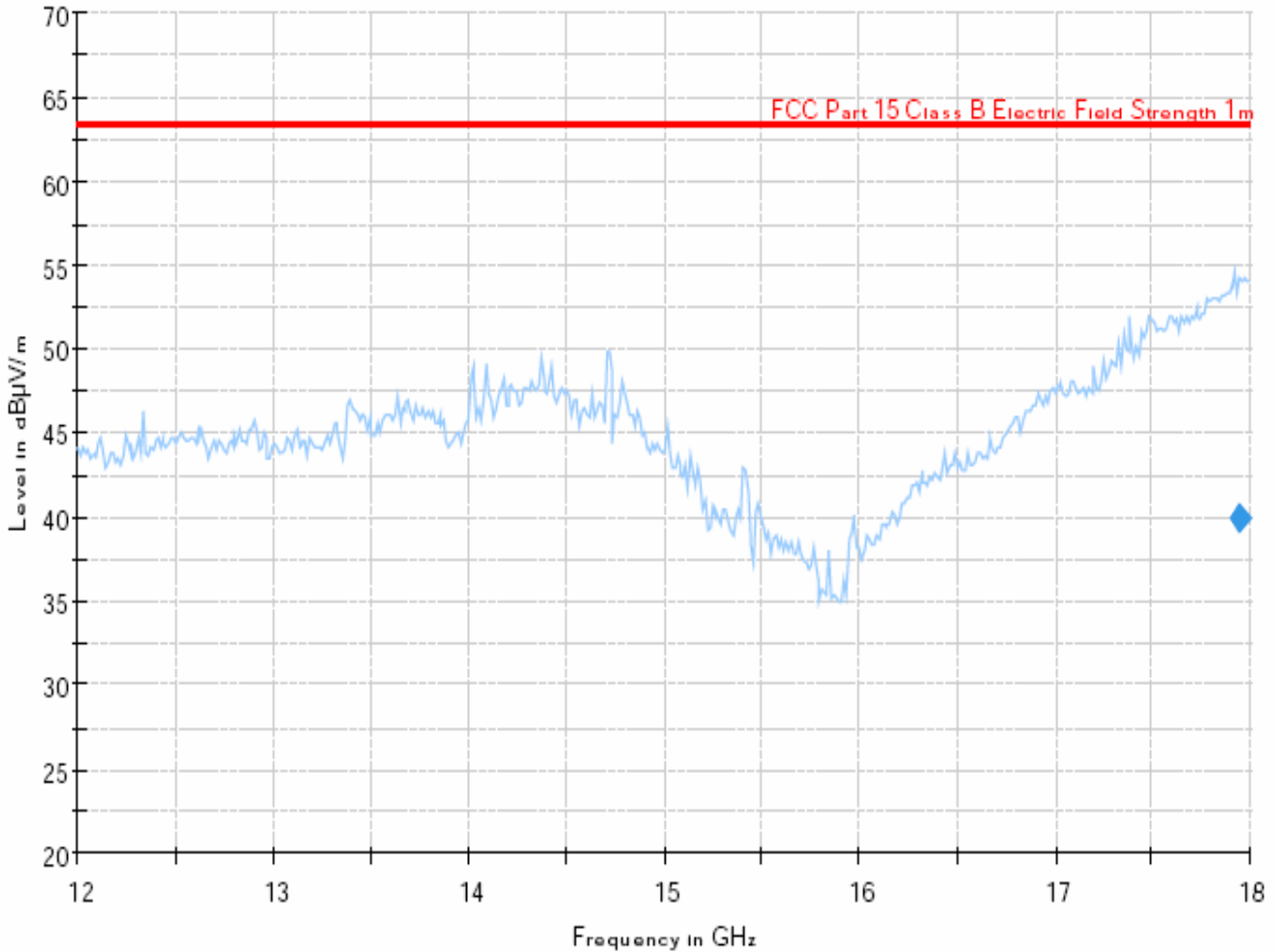
GPH\71622JD11\014  
Radiated Emissions Pre-Scan  
(8000.0 MHz to 12000.0 MHz) -48V DC Powered



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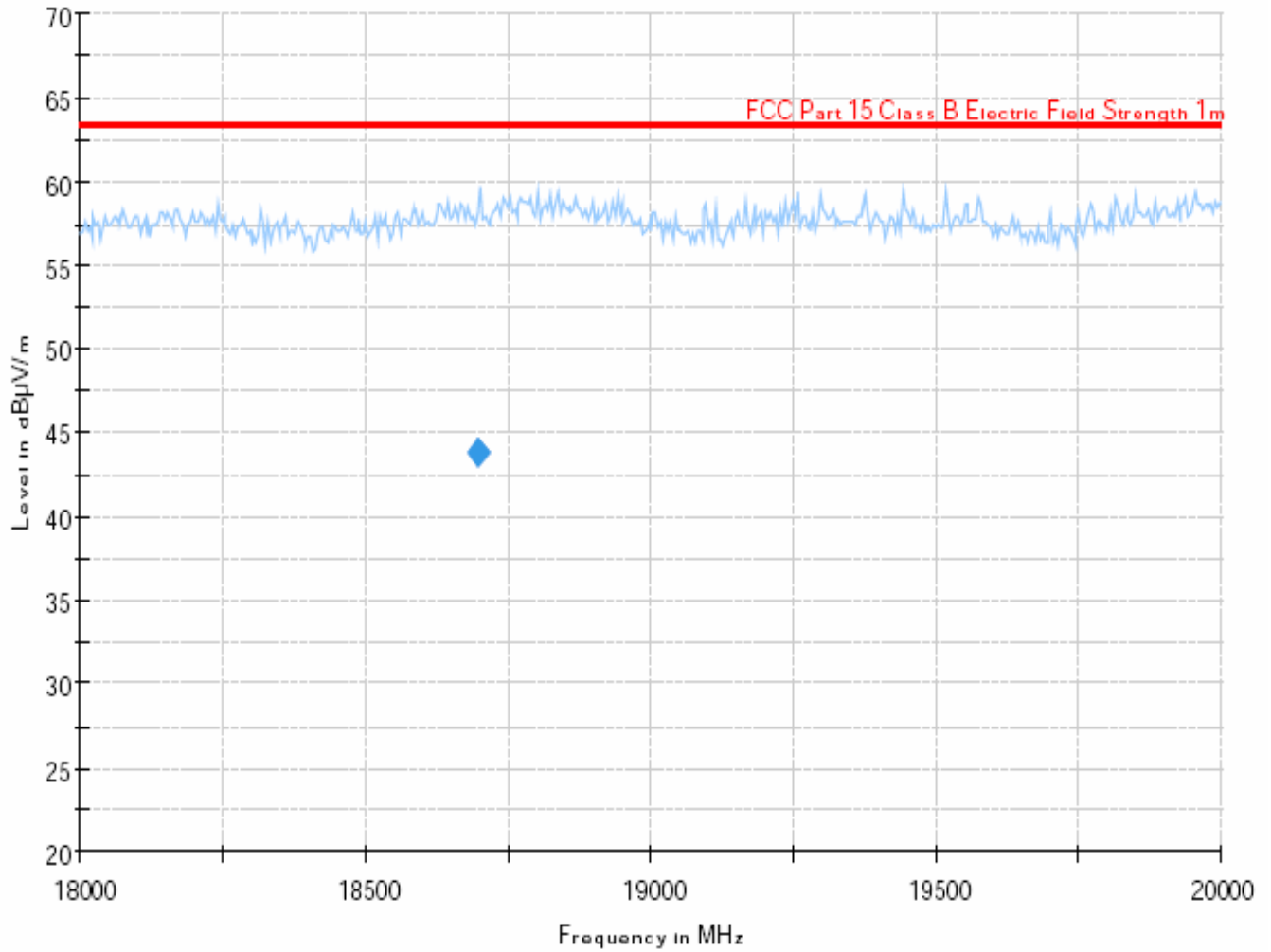
GPH\71622JD11\015  
Radiated Emissions Pre-Scan  
(12000.0 MHz to 18000.0 MHz) -48V DC Powered



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GPH\71622JD11\016  
Radiated Emissions Pre-Scan  
(18000.0 MHz to 20000.0 MHz) -48V DC Powered





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## **8. Measurement Uncertainty**

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

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

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

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

<b>Measurement Type</b>	<b>Range</b>	<b>Confidence Level</b>	<b>Calculated Uncertainty</b>
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 20 GHz	95%	+/- 3.5 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 20 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.

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## **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-603-C.

Measurements were made at the ARP output connectors and testing was performed on bottom, middle and top channels using both 8PSK and GMSK modulation on TX0, TX1, TX2 and TX3.

The BTS output 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 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

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## 9.2. Frequency Stability

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

Measurements were performed to determine the frequency stability of the fundamental emission from the EUT, when subjected to variation of ambient temperature and variation of supply voltage.

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

Testing was done at the ARP output connectors and performed for TX0 and TX2 on the Bottom and Top channels.

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

The AC supply voltage was varied at nominal temperature and the frequency stability was measured from 85% to 115% of the nominal voltage value and at nominal voltage.

All transceivers were active and evenly spaced out in the frequency band to simulate worst case. The measured transceiver was set up to transmit on 1 timeslot and testing was performed over 100 bursts.

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,

$\text{MCF}_{\text{MHz}}$  is the measured carrier frequency in MHz

$\text{LBEF}_{\text{MHz}}$  is the lower band edge carrier frequency in MHz

$\text{UBEF}_{\text{MHz}}$  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

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### **9.3. 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 on TX0 to TX3.

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.

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#### **9.4. 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 and T channels for both GMSK and 8PSK. 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 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:

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

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### **9.5. 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.

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.

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:	Peak
Mode:	Max Hold
Bandwidth:	10 kHz
Step Size:	Continuous sweep
Sweep Time:	1.75 s

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**9.6. 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  $43+10 \text{ Log}(P)$  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 transmitter power (P) measured at the antenna terminals and used to calculate the out of band emission limit as stated above was measured as 32.9 dBm, using an average detector.

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

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### **9.7. 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 an 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. Excluding the fundamental emissions, all other indicated spurious and intermodulation responses were at least 10 dB below the relevant -13dBm limit; therefore no final measurements were performed.

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. See note 1 below.

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.

Note 1.

*The limits on all the graphs are those stated in FCC Part 15. Using the formula  $P = (V/m \times d)^2 / 30$  which gives a conversion factor of -97.4 dB below 1GHz and -95.2 dB above 1GHz, the field strength limits are equivalent to the following ERP limits:*

*Quasi-peak limits, 30 to 88 MHz, 40 dB $\mu$ V/m = -55.2 dBm*

*Quasi-peak limits, 88 to 216 MHz, 43.5 dB $\mu$ V/m = -51.7 dBm*

*Quasi-peak limits, 216 to 960 MHz, 46 dB $\mu$ V/m = -49.2 dBm*

*Quasi-peak limits, 960 to 1000 MHz, 54 dB $\mu$ V/m = -41.2 dBm*

*Average limit above 1000 MHz, 54 dB $\mu$ V/m = -43.4 dBm*

*Average limit above 1000 MHz, 54 dB $\mu$ V/m = -23.4 dBm*

***These limits are more stringent than the -13dBm EIRP.***



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## Appendix 1. Test Equipment Used

### Test Equipment Used for Testing at Ericsson AB

ID Number	Description	Manufacturer	Model Number	Serial Number
10695	Spectrum Analyser	Rohde & Schwarz	FSIQ 26	836131/013
202052	Calibration Module	Hewlett Packard	N4691-60004	01368
207268	Temp/Humidity Indicator	Ahlbom	MT8636-HR6	H04070403
970319	RF Modulation Box 1900	Ericsson	LPY 107 616	4
10008562	Rubidium Atomic Clock	Pendulum	GPS-89	171
80025933	PC	Compaq	EVO	CZC3230BNX
A10474	Spectrum Analyzer	Rohde & Schwarz	FSIQ 26	838600/010
A19069	Vötsch	VCS 7250/S	Temperature chamber	58566031900030
A19314	Network Analyser Cables	Hewlett Packard	NTC195	50R49
A19315	Network Analyser Cables	Hewlett Packard	NTC195	50R50
A23858	RBS Master 2	Ericsson	LPY 107 1007/1	157
EK8445	VXI Switch	Hewlett-Packard	HP 75000	3227A03709
GS4339	AC Voltage Supply	Hewlett Packard	6812A	3523A00640
N001	Notch Filter 1800-1900 MHz	Ericsson	LPY 108 16/2	3
Y02434	Signal Generator	Rohde & Schwarz	SME 03	843098/034
A001	Attenuator, 10dB, 100W	Weinschel Corp.	48-10-34	BC2562
A002	Attenuator, 10dB, 100W	Weinschel Corp.	48-10-34	BL6940
A003	Attenuator, 30dB, 100W	Weinschel Corp.	48-30-33	BH8677
C001	Cable, 3.0m N-type to N-type	Rosenberger	4A220BF030M7070	RCL04H8385
C002	Cable, 3.0m N-type to N-type	Rosenberger	4A220BF030M7070	RCL04H8376
C003	Cable, 0.5m N-type to SMA	Suhner	Sucoflex 104E	2693/4E
C004	Cable, 0.5m N-type to SMA	Suhner	Sucoflex 104E	7700/4E
C005	Cable, 2.0m N-type to SMA	Suhner	Sucoflex 104E	2651/4E
T001	Terminator, 50 ohm, 50W	Weinschel Corp.	M1426	BL3560
T002	Terminator, 50 ohm, 50W	Weinschel Corp.	M1426	BL3564
YI2033	Network Analyser	Hewlett Packard	8720D	US36140166

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

RFI No	Instrument	Manufacturer	Model Number	Serial Number
M208	Temperature and Humidity Meter	Rohde & Schwarz	Thermo-Hygro	N/A
M1347	Fluke	73 Series 11	Multimeter	90680080

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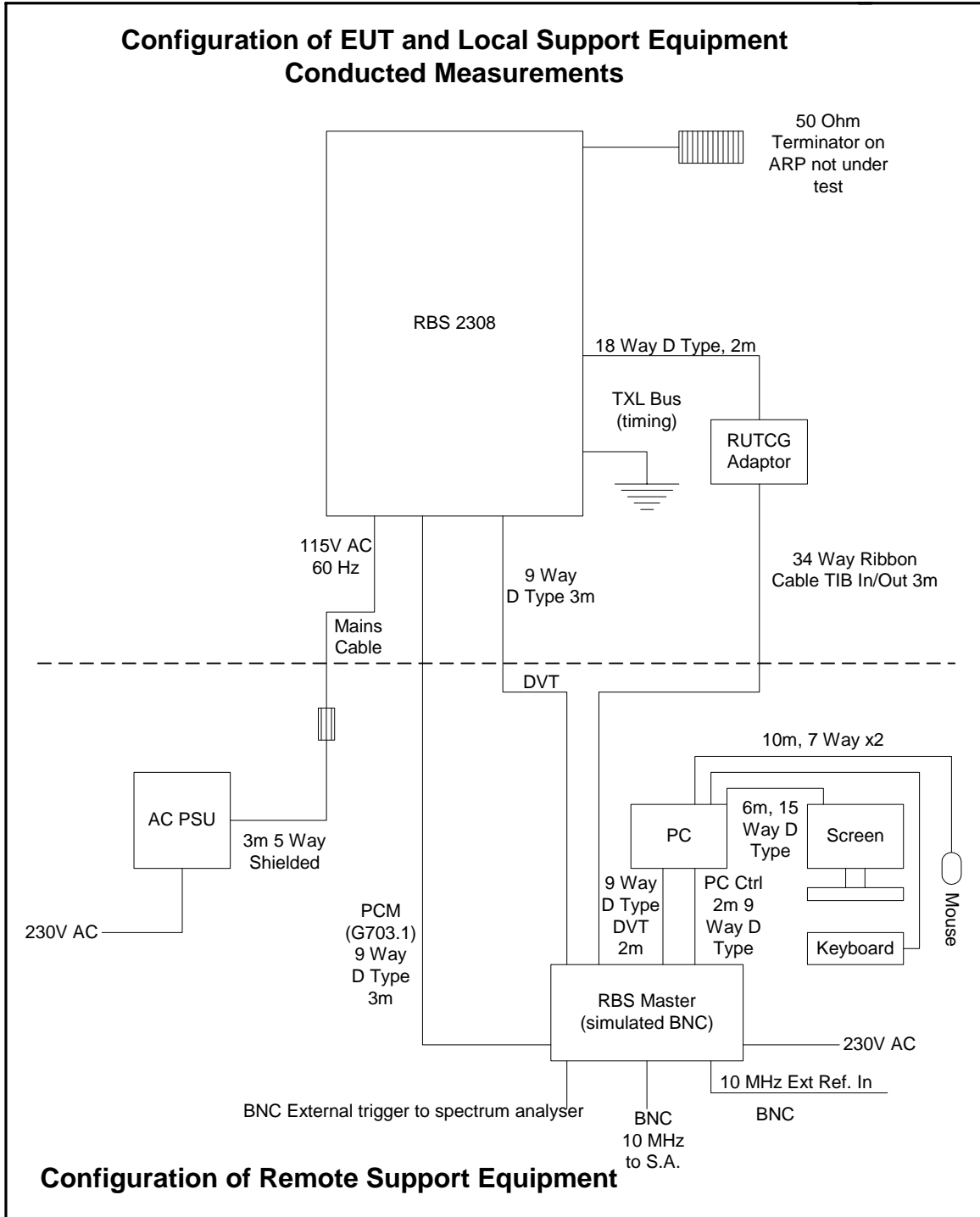
## **Appendix 2. Test Configuration Drawing**

This appendix contains the following drawing:

<b>Drawing Reference Number</b>	<b>Title</b>
DRG\71622JD11\001	Schematic diagram of the EUT, support equipment and interconnecting cables used for the conducted measurements in Lindholmen.
DRG\71622JD11\002	Schematic diagram of the EUT, support equipment and interconnecting cables used for the radiated measurements in Basingstoke.

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