SUPPLEMENTARY TEST REPORT
FROM
RADIO FREQUENCY
INVESTIGATION LTD.

Test Of: Ericsson AB.
RBS 2308

To: FCC Part 22: 2001

Supplementary Test Report Serial No:
RFI/MPTB2/SUP44227JD01A

Superseded Supplementary Test Report Serial No:
RFI/MPTB1/SUP44227JD01A

This Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director:	**Checked By:**
Tested By:	**Release Version No:** **PDF01**
Issue Date: 14 July 2003	

This supplementary report is issued as an addendum to RFI Test Report Serial No: RFI/MPTB2/RP44227JD01A. It has been issued to include additional information requested by the Applicant

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This report may be copied in full.

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

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1. Client Information

Company Name:	Ericsson AB
Address:	Torshamnsgatan 21-23 S-164 80 Kista Sweden
Contact Name:	Mr Larry Lindstrom

2. Equipment Under Test (EUT)

The following information has been supplied by the client:

2.1. Identification Of Equipment Under Test (EUT)

Unit	Model Number	Serial Number	Revision Number
RBS 2308 Cabinet	KRC 161 84/7	AE500055WS	R2D
IXU21	BOE 602 15/2	AE5000RWTM	R1C
Mounting Base	SEB 112 1133/2	5952040515	R1A

2.2. Description Of EUT

The EUT is an RBS 2308 GMSK/8PSK base transceiver station operating in the GSM 850 MHz Band.

2.3. Modifications Incorporated In EUT

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

2.4. Justification for Re-Test

When previously tested the RBS 2380 (Model No.: KRC 161 84/7) 850 MHz base station was set to maximum static output power. Power control was performed dynamically to reduce the level. Using this method of power control the base station was not able to meet the requirements for band and block edges when employing 8PSK modulation.

At the request of the manufacturer, testing has been repeated using the following control process:-

The maximum static output power level is reduced by 4dB to 30 dBm worst case for band & Block edges, resulting in the RBS 2308 850 MHz base station passing the requirements. This is the maximum allowable output power level now for 8PSK as well as for GMSK modulation at the band and block edge channels.

2.5. Additional Information Related To Testing

Type of Unit:	GSM 850 Base Transceiver Station
Interface Ports:	Telecommunication line – E1 or T1 PCM x2 (G703) TIB – synchronisation interface Mains 115 V AC Input DVT – RBS Master Control RF x2 RXBP x2
Transmit Frequency	869 MHz to 894 MHz
Receive Frequency	824 MHz to 849 MHz
Maximum Power Output	34.0 dBm

2.6. Support Equipment

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

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

Support Equipment (Continued)

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

RBS 2308 (115 V, 60 Hz AC) Hardware List

Unit	Model Number	Serial Number	Revision Number
Filter Unit RRU MBU-01	ROA 117 4776/1	S951926013	R2A
IXU21	BOE 602 15/2	AE5000PKGE	R1A
Mounting Base	None stated	None stated	None stated
Heater	BPC 111 25/1	X031000222	R3A
PSU	BML 151 23/1	X701000096	R2A
Digital Radio Board DRB1 PCB	ROA 117 4767/2	AE5000PBVP	R1B/C
Radio Access Board 1 PCB	ROA 117 4853/1	AE5000P2V9	R1B/B
Digital Radio Board DRB2 PCB	ROA 117 4767/2	AE5000PBVR	R1B/C
Radio Access Board 2 PCB	ROA 117 4853/1	AE5000P2VJ	R1B/B
Y Interface Board	ROA 117 4799/3	S951971924	R1B/B
Radio Interface Board	ROA 117 4831/1	S951952684	R1B
Duplex Filter Unit 1	KRF 102 249/1	TF30000076	R1A
Duplex Filter Unit 2	KRF 102 249/1	TF30000037	R1A
Power Interface Board	ROA 117 4775/1	S951951659	R1B

3. Summary Of Test Results

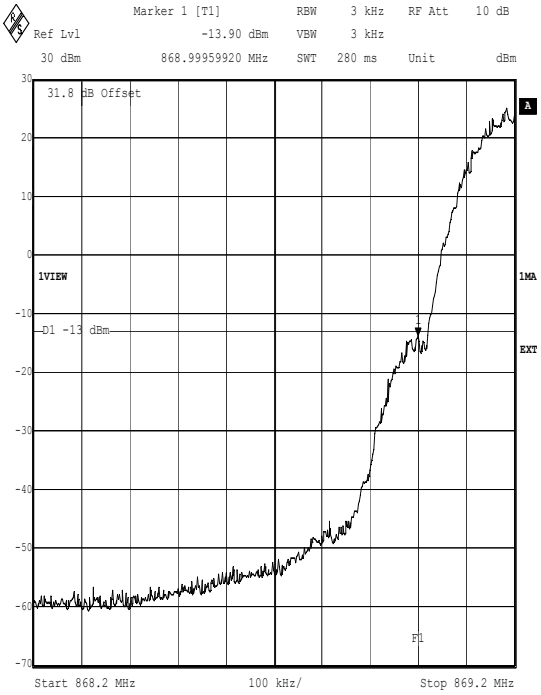
3.1. Transmit Mode

Range Of Measurements	Specification Reference	Mode of Operation	Port Type	Compliancy Status
Conducted Band Edges	C.F.R. 47 FCC Part 2: 2002 Section 2.1053	Transmit	Antenna Terminals	Complied
Transmitter Conducted Emissions at Block Edges	C.F.R. 47 FCC Part 22: 2002 Section 2.1051/22.917	Transmit	Antenna Terminals	Complied

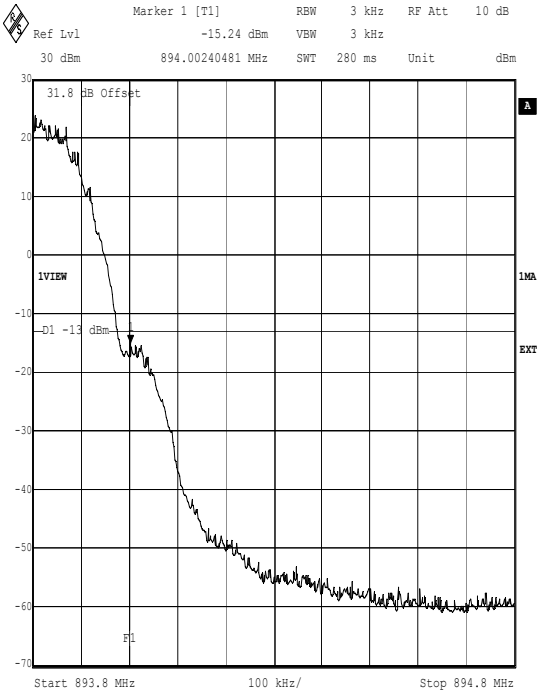
Appendix 1. Graphical Test Results

This appendix contains the graphical test results:

Band Edges GMSK

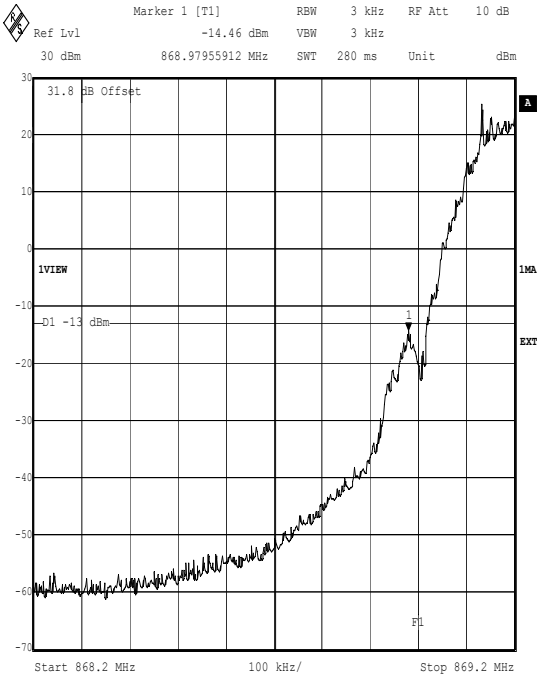


Comment A: Ch128. Band Edge +32dBm Output Power. GMSK Mode TX0. FCC Par t 22.917
Date: 6.MAY.2003 15:07:55

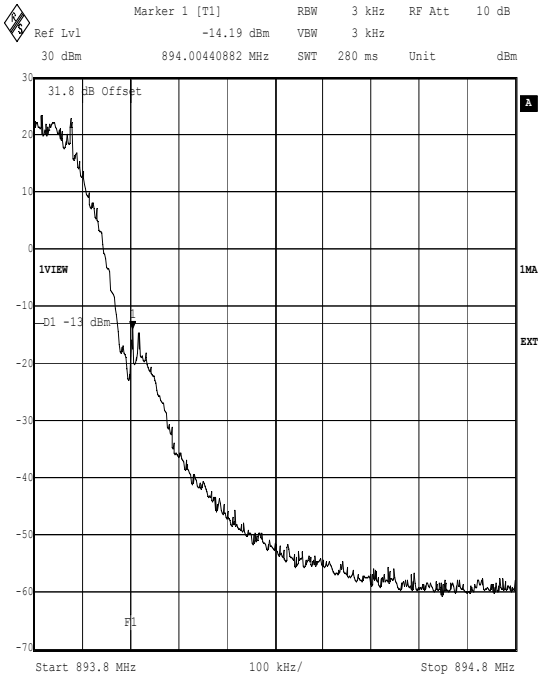


Comment A: Ch251. Band Edge +30dBm Output Power. GMSK Mode TX0. FCC Par t 22.917
Date: 6.MAY.2003 16:45:01

Band Edges 8PSK

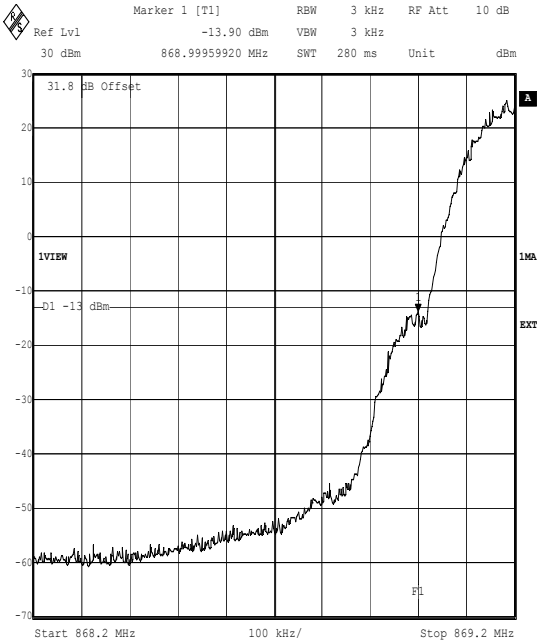


Title: Testing for Ericsson AB. RBS 2308 850 MHz. 44801JD01.
Comment A: Ch128. Band Edge +34dBm Output Power. 8PSK Mode TX0. FCC Part 22.917
Date: 5.MAY.2003 18:56:26



Title: Testing for Ericsson AB. RBS 2308 850 MHz. 44801JD01.
Comment A: Ch 251. Band Edge. +30dBm Output Power. 8PSK Mode TX0. FCC Part 22.917
Date: 6.MAY.2003 11:18:07

Block Edges GMSK



Comment A: Ch128. Band Edge +32dBm Output Power. GMSK Mode TX0. FCC Par
t 22.917
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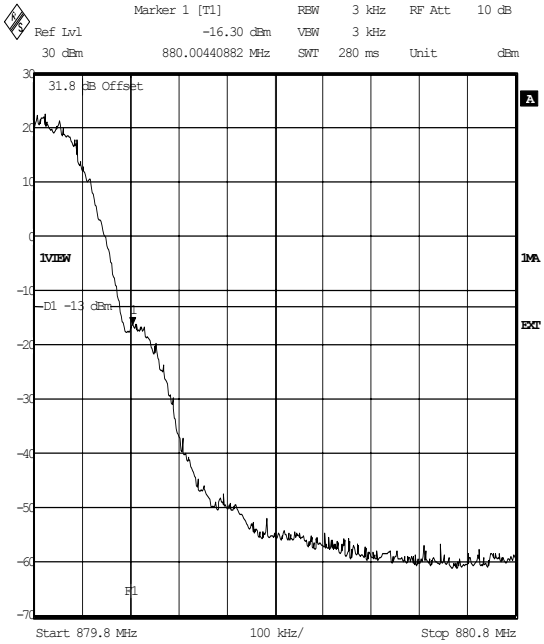

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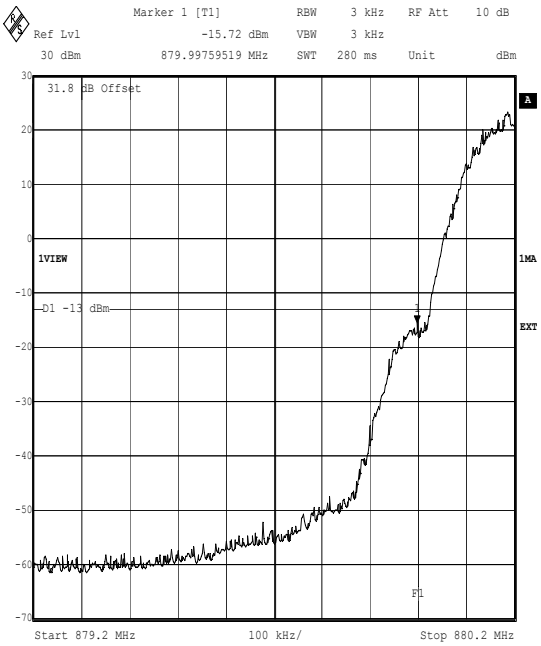

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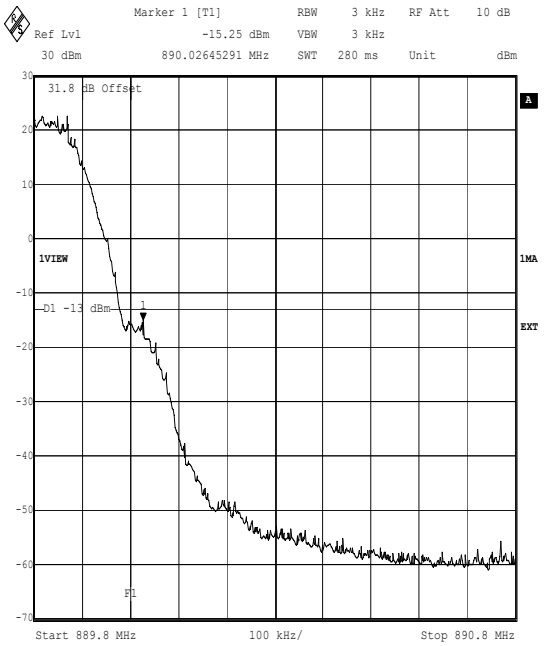

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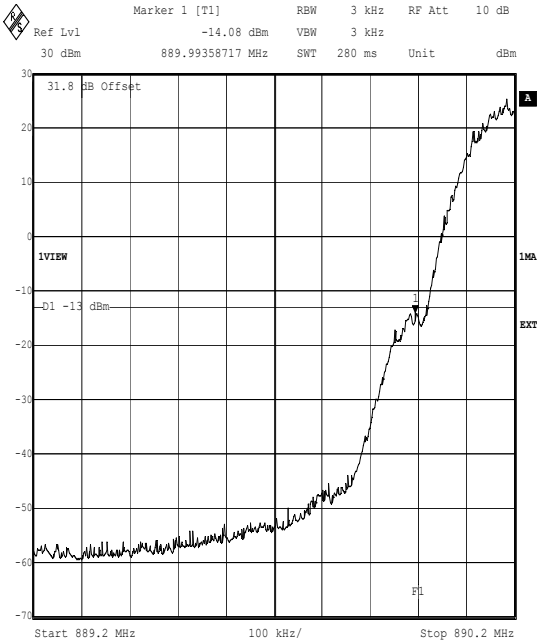
Block Edges GMSK (Continued)



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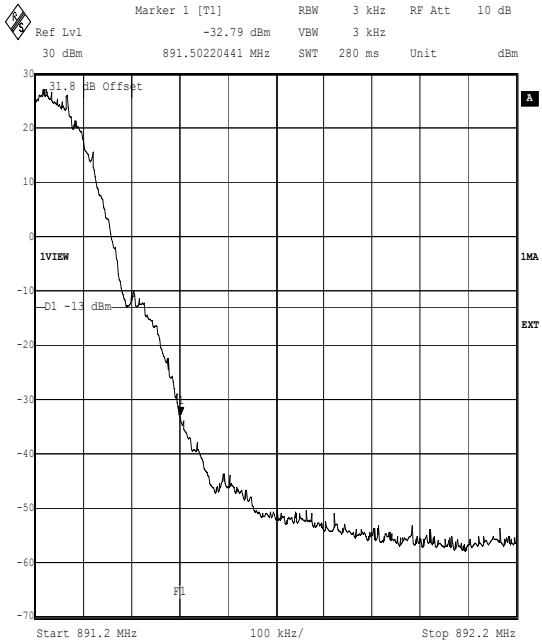

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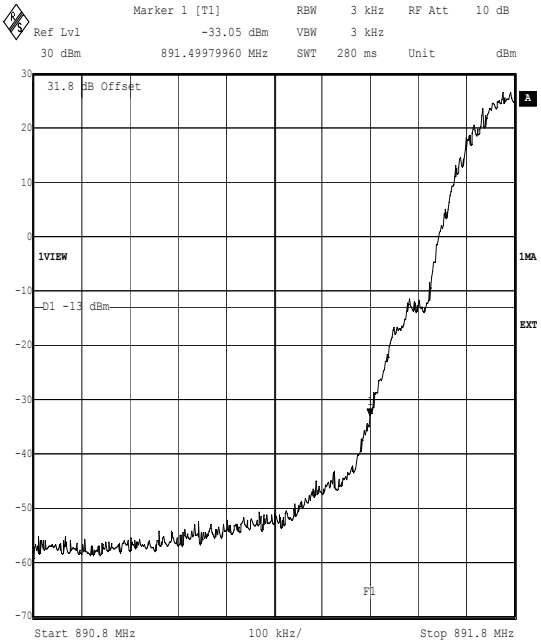

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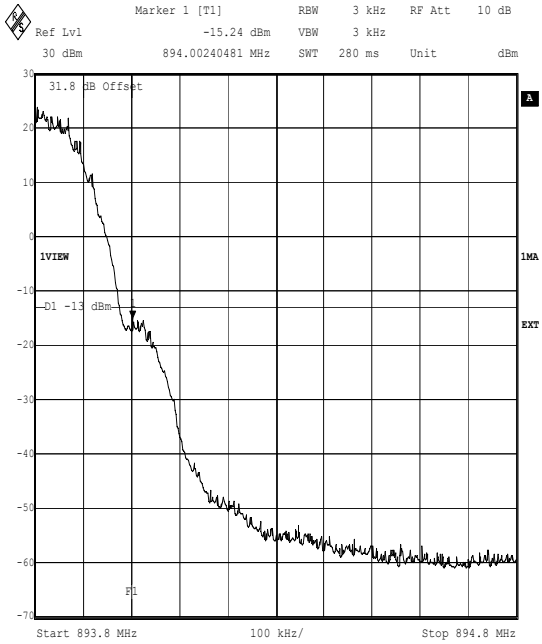
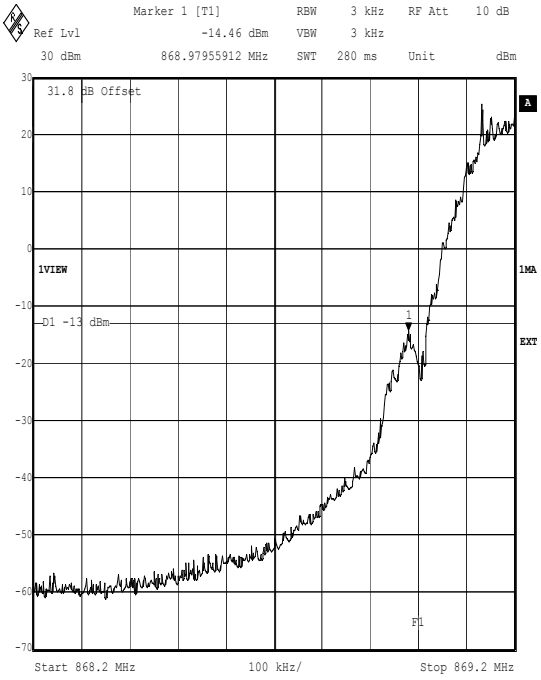
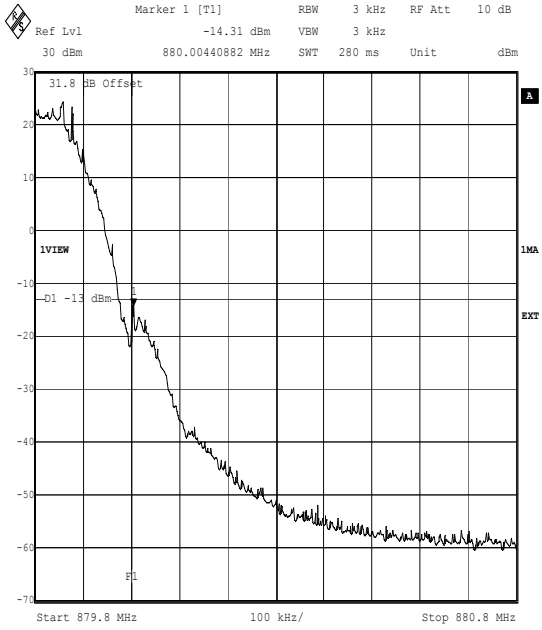


Comment A: Ch251. Band Edge +30dBm Output Power. GMSK Mode TX0. FCC Par
t 22.917
Date: 6.MAY.2003 16:45:01

Block Edges 8PSK



Title: Testing for Ericsson AB. RBS 2308 850 MHz. 44801JD01.
Comment A: Ch128. Band Edge +34dBm Output Power. 8PSK Mode TX0. FCC Part 22.917
Date: 5.MAY.2003 18:56:26



Title: Testing for Ericsson AB. RBS 2308 850 MHz. 44801JD01.
Comment A: Ch181. Block Edge +30dBm Output Power. 8PSK Mode TX0. FCC Part 22.917
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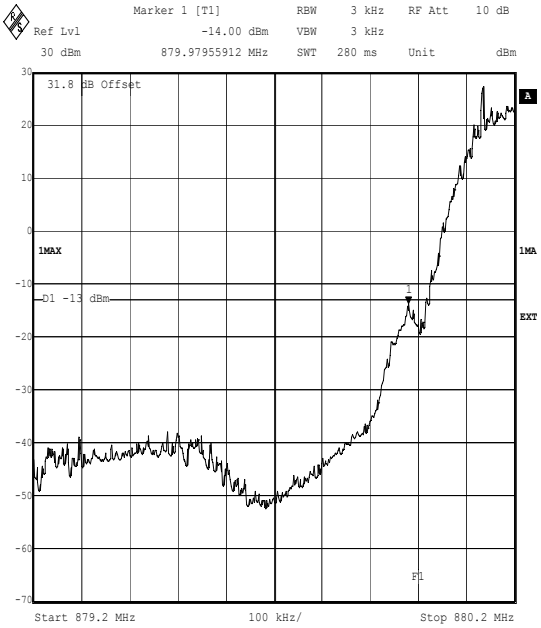
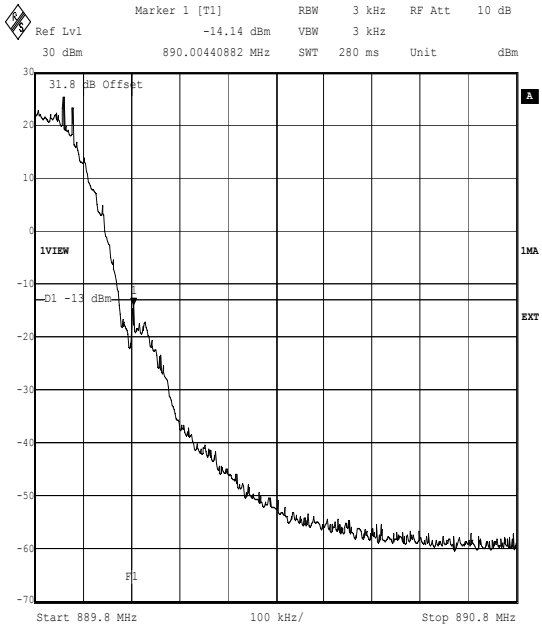


Title: Testing for Ericsson AB. RBS 2308 850 MHz. 44801JD01.
Comment A: Ch183. Band Edge +34dBm Output Power. 8PSK Mode TX0. FCC Part 22.917
Date: 5.MAY.2003 19:19:40



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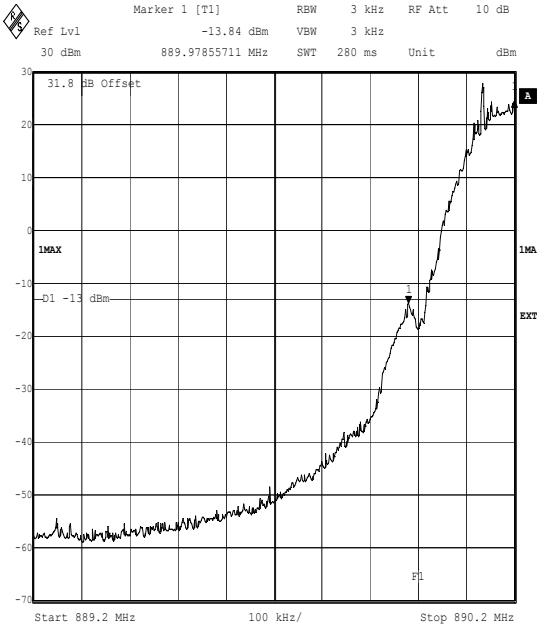
Comment A: Ch 231. Block Edge. +30dBm Output Power. 8PSK Mode TX0. FCC Part 22.917
Date: 6.MAY.2003 13:24:21

Block Edges 8PSK (Continued)



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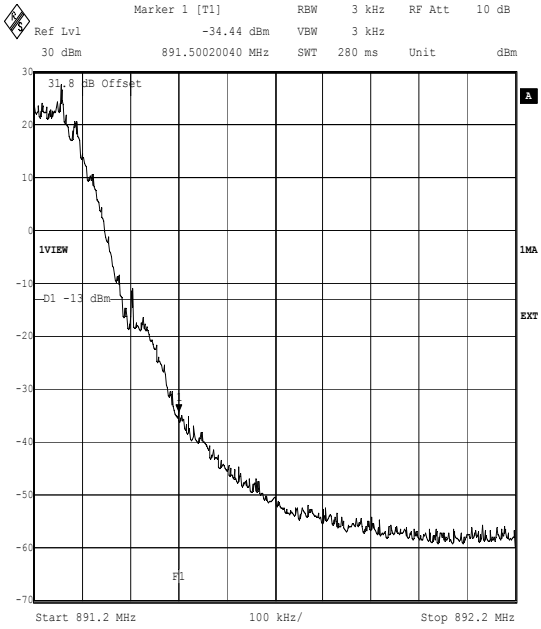

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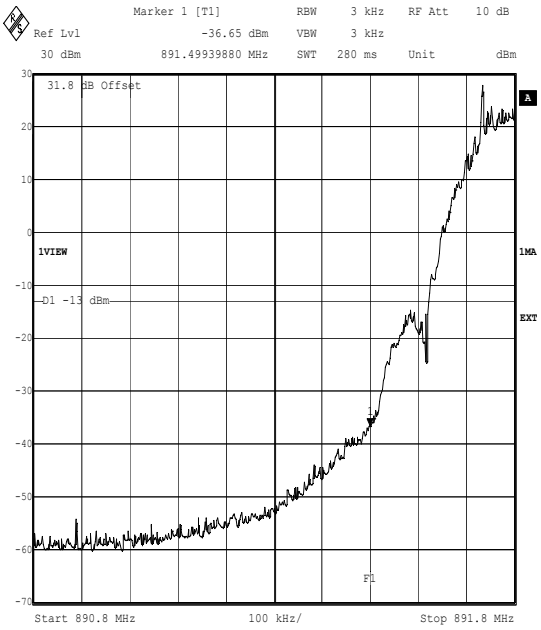

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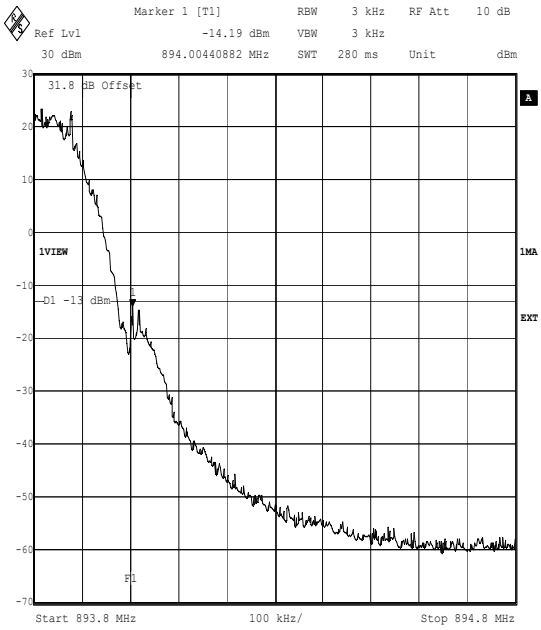

Title: Testing for Ericsson AB. RBS 2308 850 MHz. 44801JD01.
Comment A: Ch 251. Band Edge. +30dBm Output Power. 8PSK Mode TX0. FCC Part 22.917
Date: 6.MAY.2003 11:18:07

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