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Datum/Date 2002-01-08 Beteckning/Reference F122706 Sida/Page 1(1)

Equipment Authorization measurements on Transceiver Unit KRC 131 1005/1 with FCC ID: B5KPKRC1311005-1

(10 enclosures)

Test object

Transceiver Unit KRC 131 1005/1 R1A.

Summary

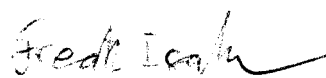
Standard	Compliant	Enclosure	Remarks
FCC CFR 47			
2.1046 RF Power output	Yes	2	
2.1047 Modulation characteristics	Yes	3	
2.1049 Occupied bandwidth	Yes	4	Note 1
2.1051 Spurious emission at antenna	Yes	5	
2.1053 Field strength of spurious radiation	Yes	6	
2.1055 Frequency stability	Yes	7	
Intermodulation test	Yes	8	

Note 1: This unit must use reduced transmit power for the channels adjacent to each frequency block edge in order to comply.

SP Swedish National Testing and Research Institute Electronics - EMC



Lasse Bergsten
Deputy Technical Manager



Fredrik Isaksson
Technical Officer

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SP Swedish National Testing and Research Institute, Box 857, S-501 15 BORÅS, SWEDEN, Telephone + 46 33 16 50 00, Telefax + 46 33 13 55 02, E-mail info@sp.se, Reg.No 556464-6874

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REPORT

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Description - Equipment Under Test (EUT)

Equipment: GSM Base station transceiver 800 MHz
Tx Frequency range: 869.2-893.8 MHz
Tested Channels: 128: 869.2 MHz
129: 869.4 MHz
153: 874.2 MHz
190: 881.4 MHz
226: 888.8 MHz
250: 893.6 MHz
251: 893.8 MHz
Product number: TRU: KRC 131 1005/1
Serial number: See Hardware list in enclosure 9

RF conducted measurements were done on
TRU: KRC 131 1005/1, R1A s/n: AE50007E43
CDU-G8: BFL 119 155/1, R1B s/n: A40003HOKA

All RF conducted measurements were done at the output connectors of CDU-G.

Manufacturer's
representative: Larry Lindström, Ericsson Radio Systems AB

Purpose of test

The purpose of the tests is to verify compliance to the performance characteristics specified in FCC CFR47.

Reservation

The test results in this report apply only to the particular Equipment Under Test (EUT) as declared in the report.

Delivery of test object

The test object was delivered: 2001-12-03.

Test engineer

Fredrik Isaksson

Test witnesses

Lars Hagbjörk, Ericsson Radio Systems AB (partly present)
Lucia Morandi, Ericsson Radio Systems AB

Sign:.....

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RF Power output measurements according to 47CFR 2.1046

Date 2001-12-10	Temperature 22 °C ± 3 °C	Humidity 30 % ± 5 %
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Test set-up and Procedure

The measurements were made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a Peak power analyzer via a 50 ohm attenuator. The RF power was measured with variation in supply voltage at the highest power level. Test was performed on 24 V DC supply voltage system. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
Boonton RF Peak power meter/analyzer	2002-12	503 144
Boonton Peak power sensor 56518-S/4	2002-12	503 146
Testo 615, Temperature and humidity meter	2003-08	503 505

Sign:.....

Results

TRU, s/n: AE50007E43, output 1, without dTRU internal combiner, in cabinet 2206, revision R3A:

Nominal power 24 V DC

Rated output power level after CDU-G (maximum): 46.5 dBm

Test conditions		Transmitter power (dBm)		
		Channel 128	Channel 190	Channel 251
T _{nom} 22°C	V _{nom} 24 V DC	46.5	46.9	46.7
T _{nom} 22°C	V _{min} 20.4 V DC	46.5	46.9	46.7
	V _{max} 29.0 V DC	46.5	47.0	46.6
Measurement uncertainty		0.5 dB		

TRU, s/n: AE50007E43, output 2, without dTRU internal combiner, in cabinet 2206, revision R3A:

Nominal power 24 V DC

Rated output power level after CDU-G (maximum): 46.5 dBm

Test conditions		Transmitter power (dBm)		
		Channel 128	Channel 190	Channel 251
T _{nom} 22°C	V _{nom} 24 V DC	46.4	46.9	47.1
T _{nom} 22°C	V _{min} 20.4 V DC	46.6	47.6	46.4
	V _{max} 29.0 V DC	46.6	46.9	46.4
Measurement uncertainty		0.5 dB		

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TRU, s/n: AE50007E43, output 1, with dTRU internal combiner, in cabinet 2206, revision R3A:

Nominal power 24 V DC

Rated output power level after CDU-G (maximum): 43 dBm

Test conditions		Transmitter power (dBm)		
		Channel 128	Channel 190	Channel 251
T _{nom} 22°C	V _{nom} 24 V DC	43.2	44.0	43.3
T _{nom} 22°C	V _{min} 20.4 V DC	43.1	43.6	43.2
	V _{max} 29.0 V DC	43.2	43.7	43.3
Measurement uncertainty		0.5 dB		

TRU, s/n: AE50007E43, output 2, with dTRU internal combiner, in cabinet 2206, revision R3A:

Nominal power 24 V DC

Rated output power level after CDU-G (maximum): 43 dBm

Test conditions		Transmitter power (dBm)		
		Channel 128	Channel 190	Channel 251
T _{nom} 22°C	V _{nom} 24 V DC	43.5	43.6	43.2
T _{nom} 22°C	V _{min} 20.4 V DC	43.3	43.6	43.2
	V _{max} 29.0 V DC	43.2	43.6	43.2
Measurement uncertainty		0.5 dB		

Limits

The tolerance of the maximum rated output power shall not be greater than ± 2 dB.

Compliant?	Yes
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Sign:.....

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Modulation characteristics measurements according to 47CFR 2.1047

Date 2001-12-06	Temperature 24 °C ± 3 °C	Humidity 21 % ± 5 %
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Test set-up and Procedure

Measurement equipment	Calibration Due	SP number
R&S ESI 40 with option FSE-B7	2002-07	503 125
Testo 615, Temperature and humidity meter	2003-08	503 505

Results

TRU, s/n: AE50007E43 in cabinet 2206, revision R3A

Nominal Voltage 24 V DC

46.5 dBm output power at Channel 128 (869.2 MHz)

	Phase error (°)	
	TRU Output 1	TRU Output 2
	1	1
Maximum phase error (°)	1	

Limits

The tolerance of the maximum output phase error shall not be greater than 5 degrees.

Compliant?	Yes
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Sign:.....

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Occupied bandwidth measurements according to 47CFR 2.1049

Date 2001-12-13	Temperature 22 °C ± 3 °C	Humidity 24 % ± 5 %
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Test set-up and Procedure

The measurements were made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a spectrum analyzer. The spectrum analyser was hooked up to an external 10 MHz reference standard during the measurements. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
R&S ESI 40 with option FSE-B7	2002-07	503 125
Testo 615, Temperature and humidity meter	2003-08	503 505

Measurement uncertainty: 3.7 dB

Results

TRU, s/n: AE50007E43 in cabinet 2206 R3A, TRU Output 1:

Diagram 1 Ch 128 OBW Reference level +20.5 dBm output power

Diagram 2 Ch 128 OBW 26 dB points +20.5 dBm output power

Diagram 3 Ch 128 OBW Band edge +20.5 dBm output power

Diagram 4 Ch 129 OBW Reference level +46.5 dBm output power

Diagram 5 Ch 129 OBW 26 dB points +46.5 dBm output power

Diagram 6 Ch 129 OBW Band edge +46.5 dBm output power

Diagram 7 Ch 250 OBW Reference level +46.5 dBm output power

Diagram 8 Ch 250 OBW 26 dB points +46.5 dBm output power

Diagram 9 Ch 250 OBW Band edge +46.5 dBm output power

Diagram 10 Ch 251 OBW Reference level +20.5 dBm output power

Diagram 11 Ch 251 OBW 26 dB points +20.5 dBm output power

Diagram 12 Ch 251 OBW Band edge +20.5 dBm output power

TRU, s/n: AE50007E43 in cabinet 2206 R3A, TRU Output 2:

Diagram 13 Ch 128 OBW Reference level +20.5 dBm output power

Diagram 14 Ch 128 OBW 26 dB points +20.5 dBm output power

Diagram 15 Ch 128 OBW Band edge +20.5 dBm output power

Diagram 16 Ch 128 OBW Reference level +46.5 dBm output power

Diagram 17 Ch 128 OBW 26 dB points +46.5 dBm output power

Diagram 18 Ch 128 OBW Band edge +46.5 dBm output power

Diagram 19 Ch 250 OBW Reference level +46.5 dBm output power

Diagram 20 Ch 250 OBW 26 dB points +46.5 dBm output power

Diagram 21 Ch 250 OBW Band edge +46.5 dBm output power

Sign:.....

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Diagram 22 Ch 251 OBW Reference level +20.5 dBm output power
Diagram 23 Ch 251 OBW 26 dB points +20.5 dBm output power
Diagram 24 Ch 251 OBW Band edge +20.5 dBm output power

TRU s/n: AE50007E43 in cabinet 2206 R3A, with dTRU internal combiner,
TRU Output 1:

Diagram 25 Ch 128 OBW Reference level +21 dBm output power
Diagram 26 Ch 128 OBW 26 dB points +21 dBm output power
Diagram 27 Ch 128 OBW Band edge +21 dBm output power

Diagram 28 Ch 129 OBW Reference level +43 dBm output power
Diagram 29 Ch 129 OBW 26 dB points +43 dBm output power
Diagram 30 Ch 129 OBW Band edge +43 dBm output power

Diagram 31 Ch 250 OBW Reference level +43 dBm output power
Diagram 32 Ch 250 OBW 26 dB points +43 dBm output power
Diagram 33 Ch 250 OBW Band edge +43 dBm output power

Diagram 34 Ch 251 OBW Reference level +21 dBm output power
Diagram 35 Ch 251 OBW 26 dB points +21 dBm output power
Diagram 36 Ch 251 OBW Band edge +21 dBm output power

Remarks

This unit must use reduced transmit power for the channels adjacent to each frequency block edge in order to comply.

Limits

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

Compliant?	Yes
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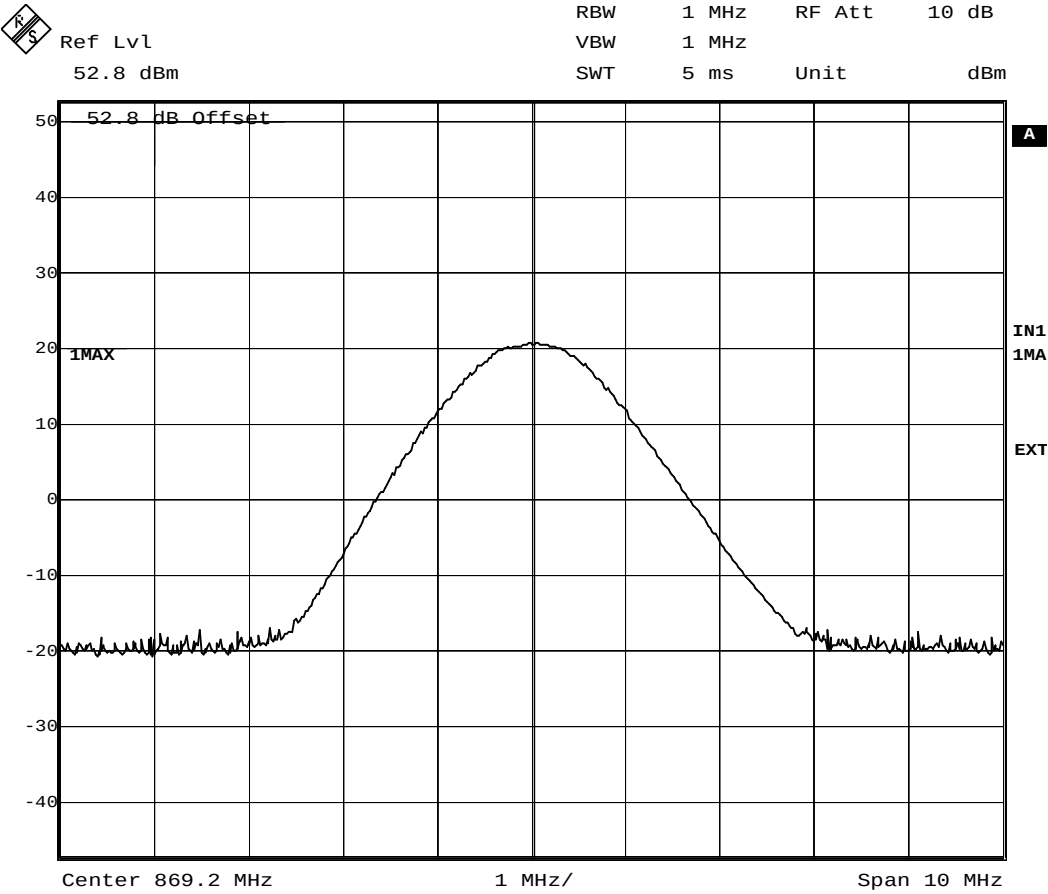
Sign:.....

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Datum/Date2002-01-08Beteckning/ReferenceF122706Sida/Page3 (38)Encl. 4Diagram 1

Reference level



Date: 13.DEC.2001 13:19:09

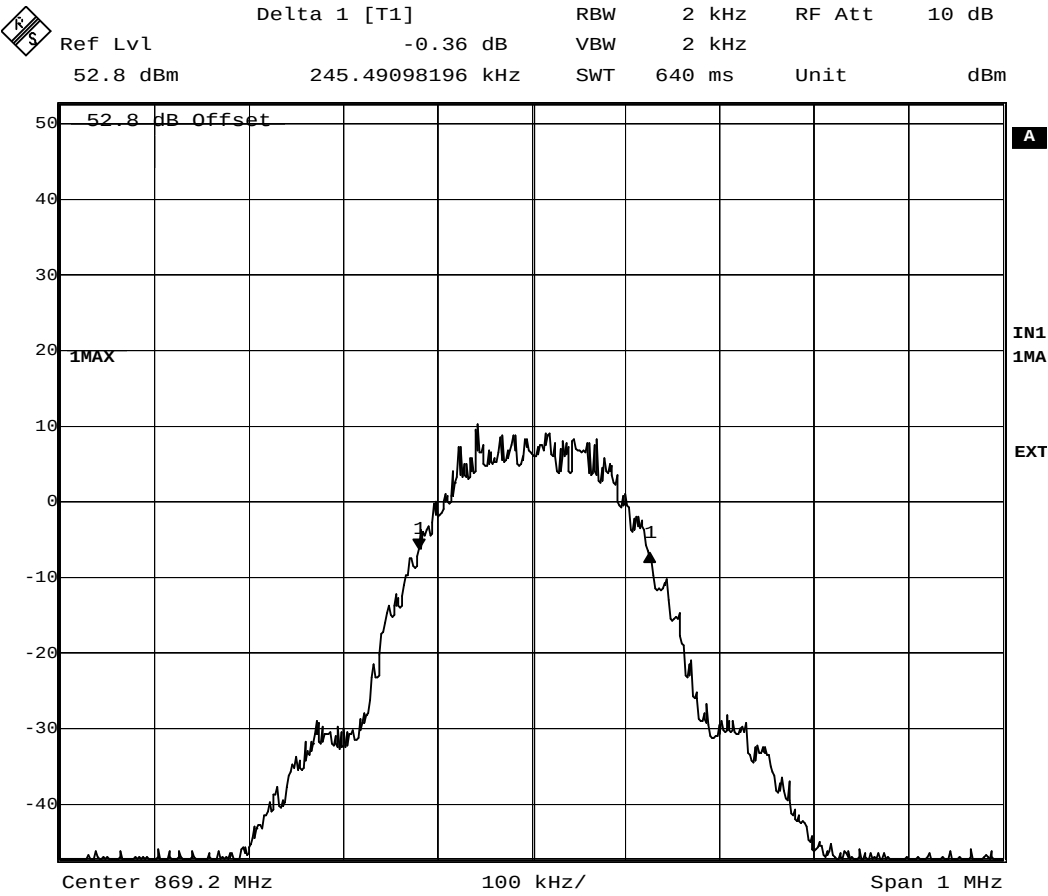
Ch 128

Sign:.....

REPORT

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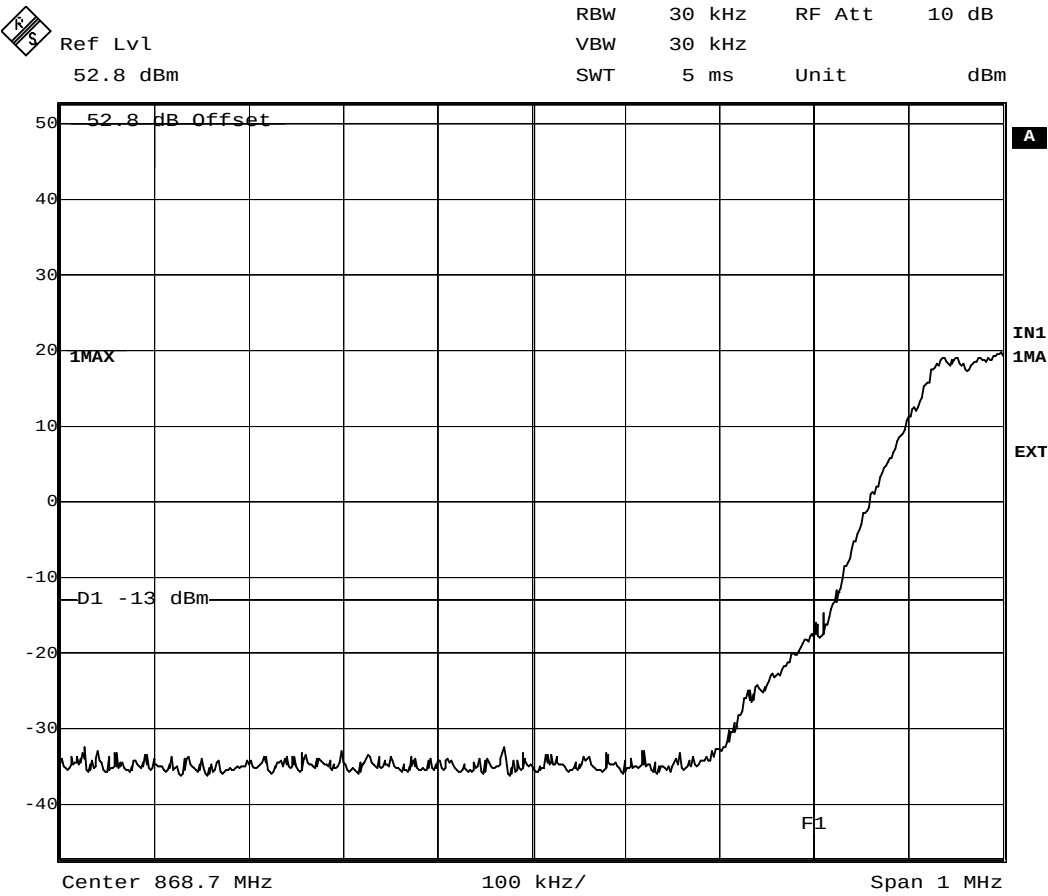
26 dB point



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FCC ID: B5KPKRC1311005-1

Band edge level



Date: 13.DEC.2001 13:21:28

Ch 128

Sign:.....

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Diagram 4

RBW	1 MHz	RF Att	10 dB
VBW	1 MHz		
SWT	5 ms	Unit	dBm



Sign:.....

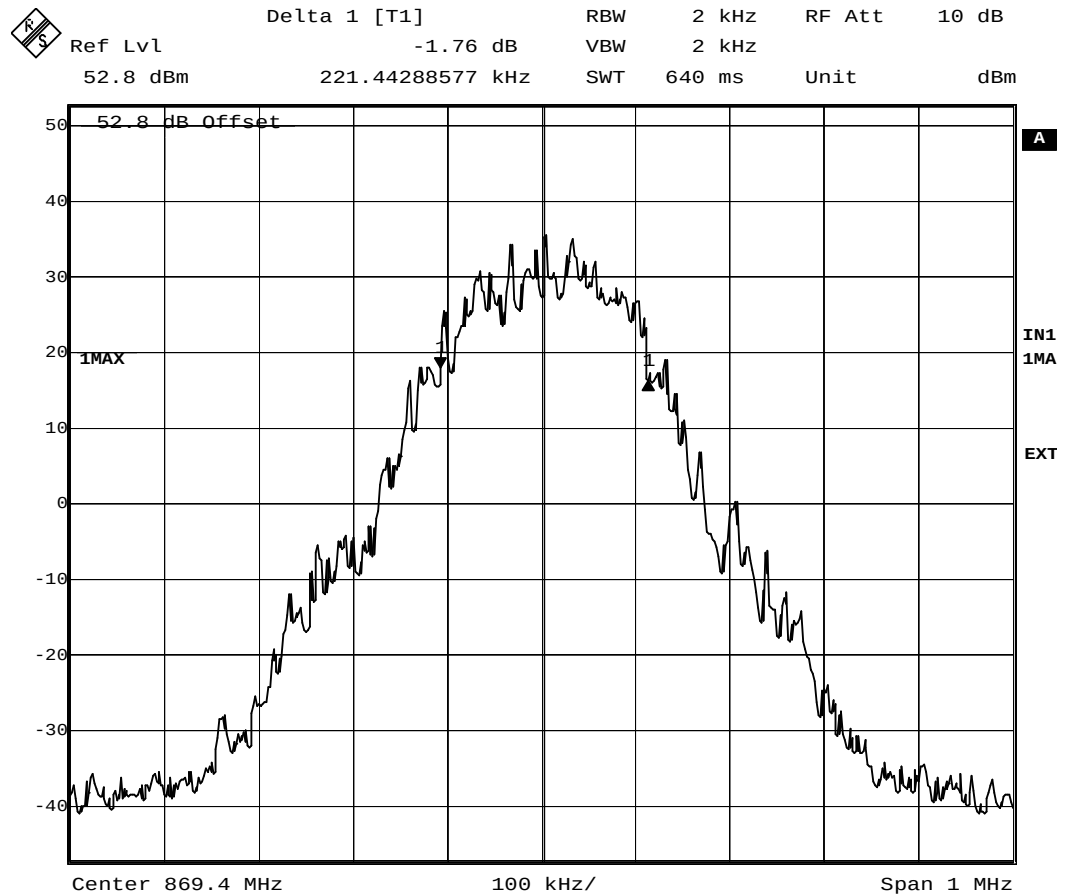
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2002-01-08

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Diagram 5

26 dB point



Date: 13.DEC.2001 13:11:40

Ch 129

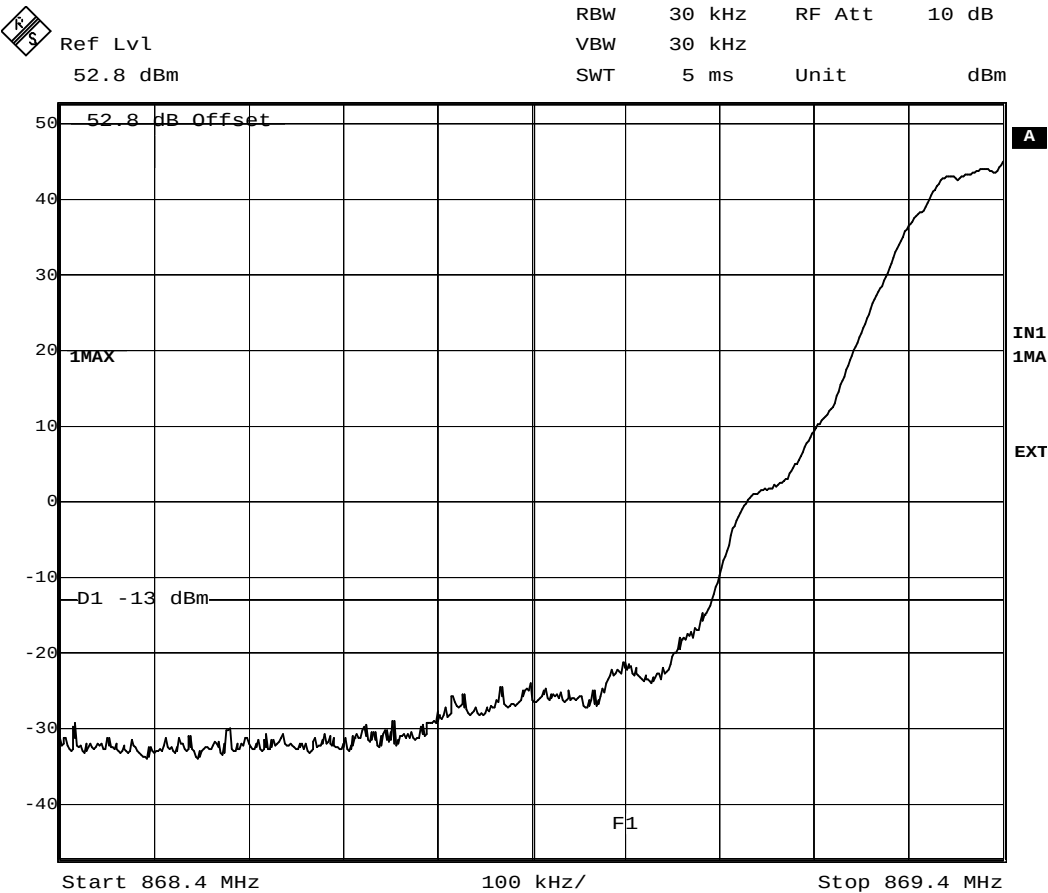
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FCC ID: B5KPKRC1311005-1

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Band edge level



Date: 13.DEC.2001 13:12:38

Ch 129

Sign:.....

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Diagram 7

RBW	1 MHz	RF Att	10 dB
VBW	1 MHz		
SWT	5 ms	Unit	dBm



Sign:.....

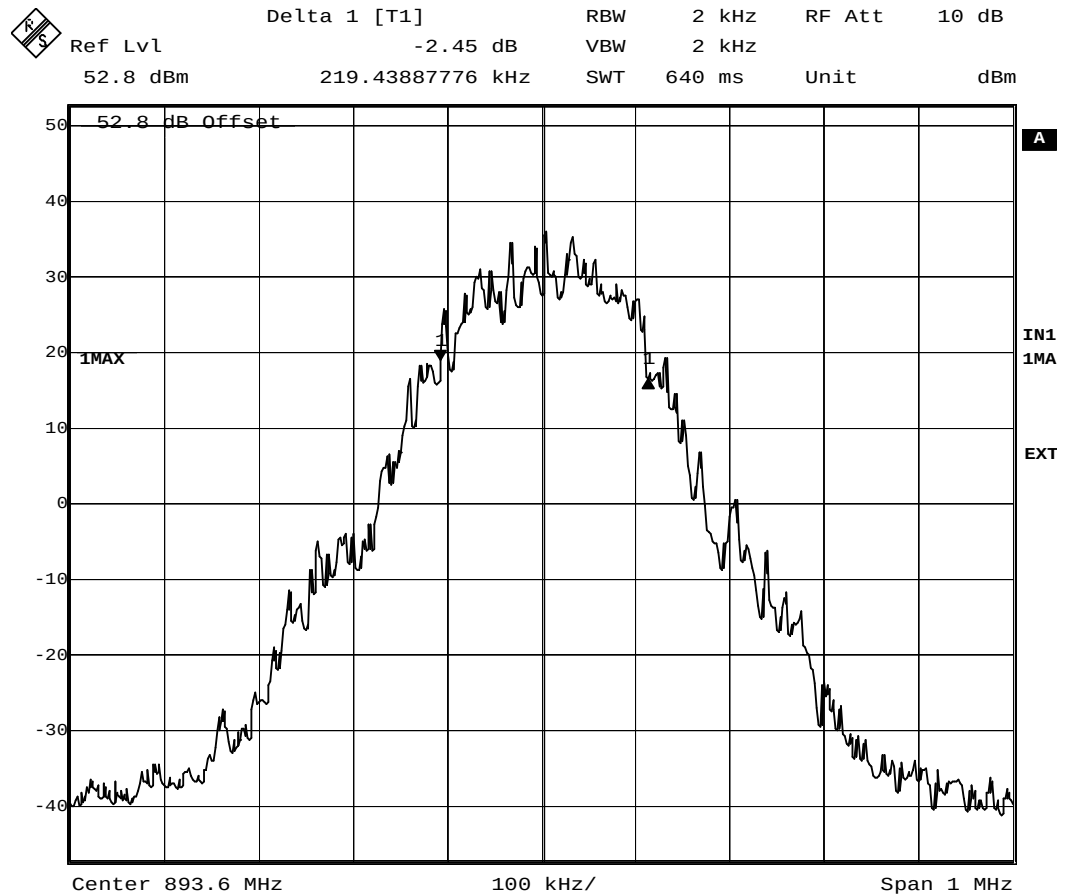
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Datum/Date
2002-01-08

Beteckning/*Reference*
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Diagram 8

26 dB point



Date: 13.DEC.2001 13:07:29

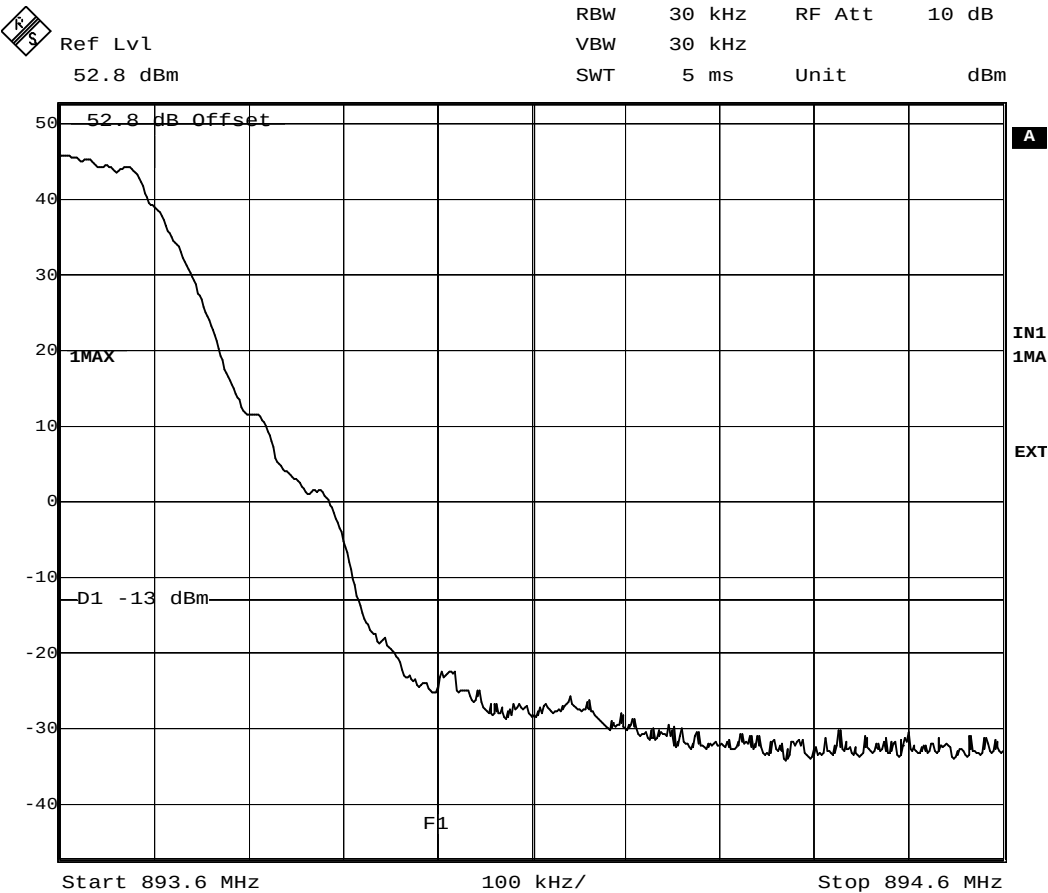
Ch 250

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Band edge level

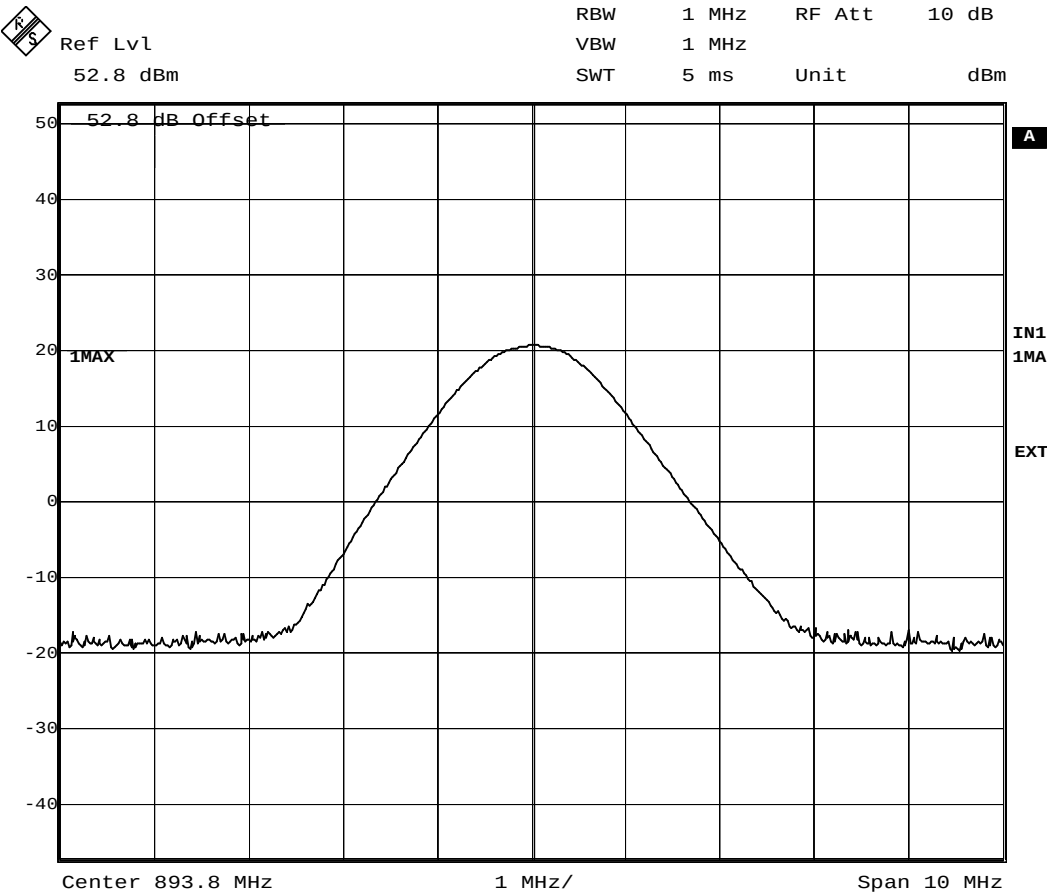


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Reference level



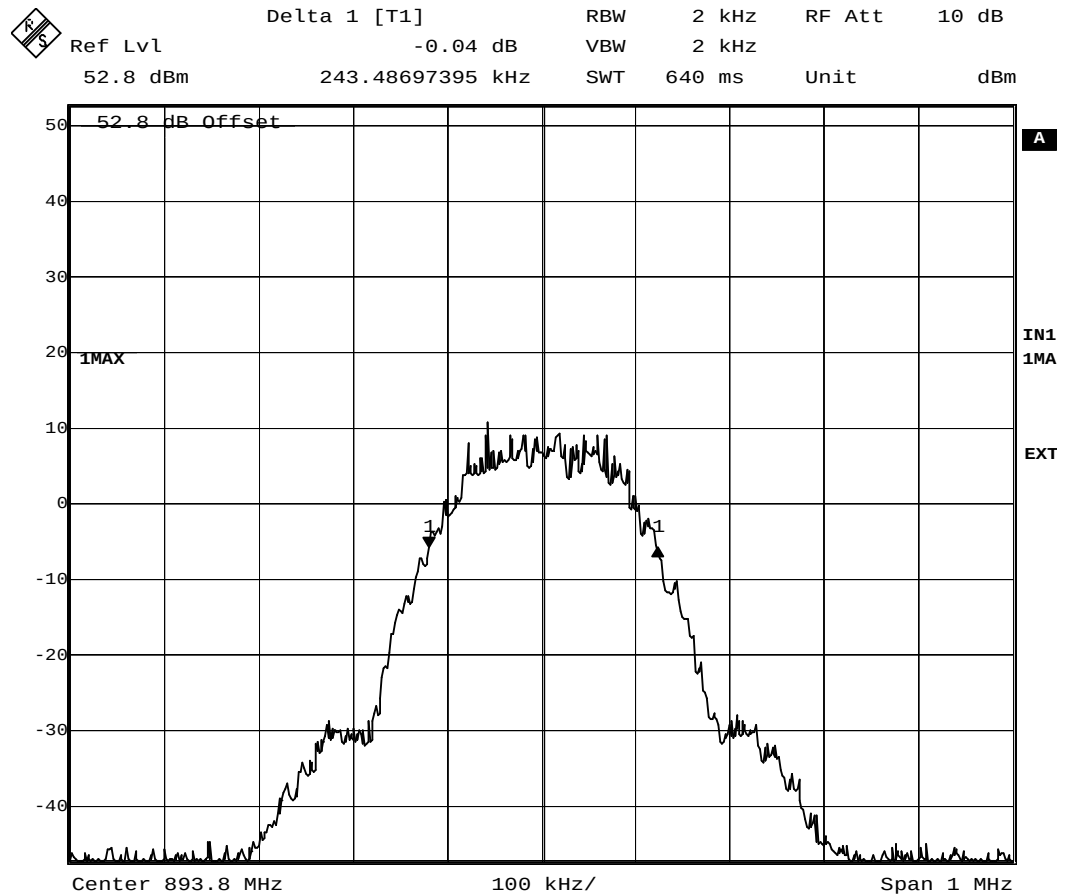
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Diagram 11

26 dB point



Date: 13.DEC.2001 11:11:17

Ch 251

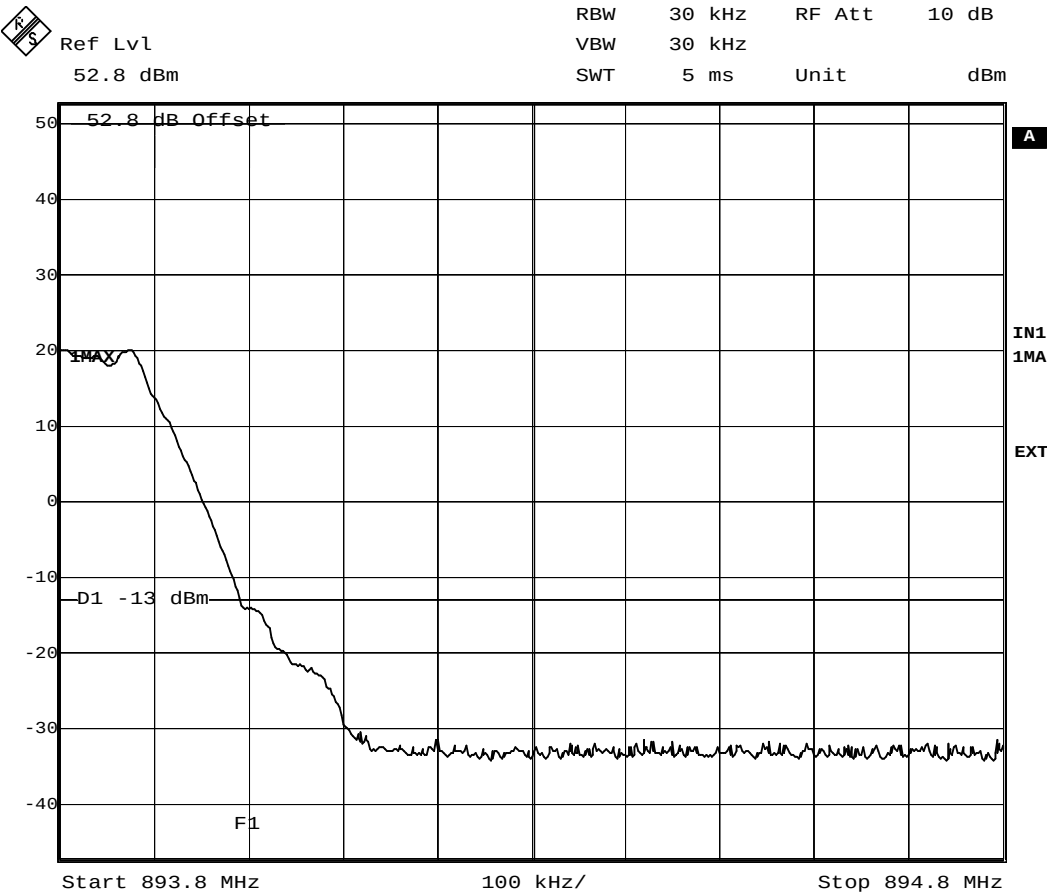
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FCC ID: B5KPKRC1311005-1

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Band edge level



Date: 13.DEC.2001 11:06:25

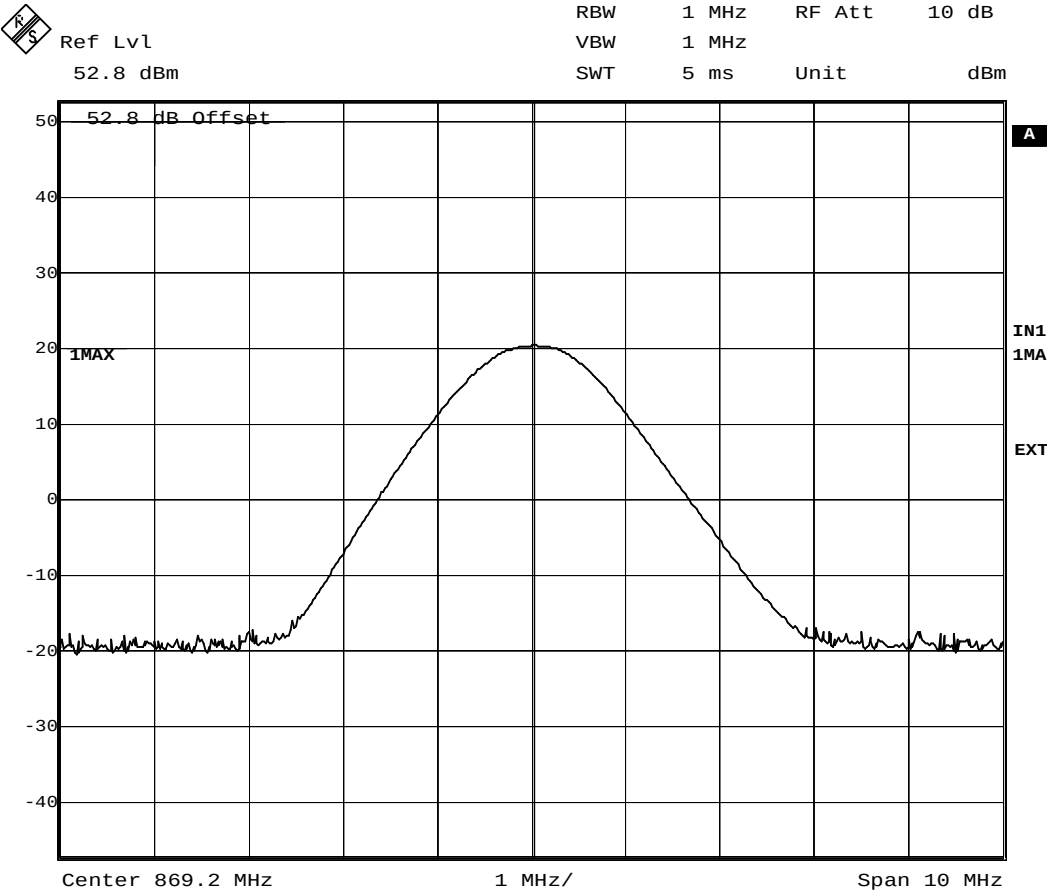
Ch 251

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Reference level



Date: 13.DEC.2001 13:26:46

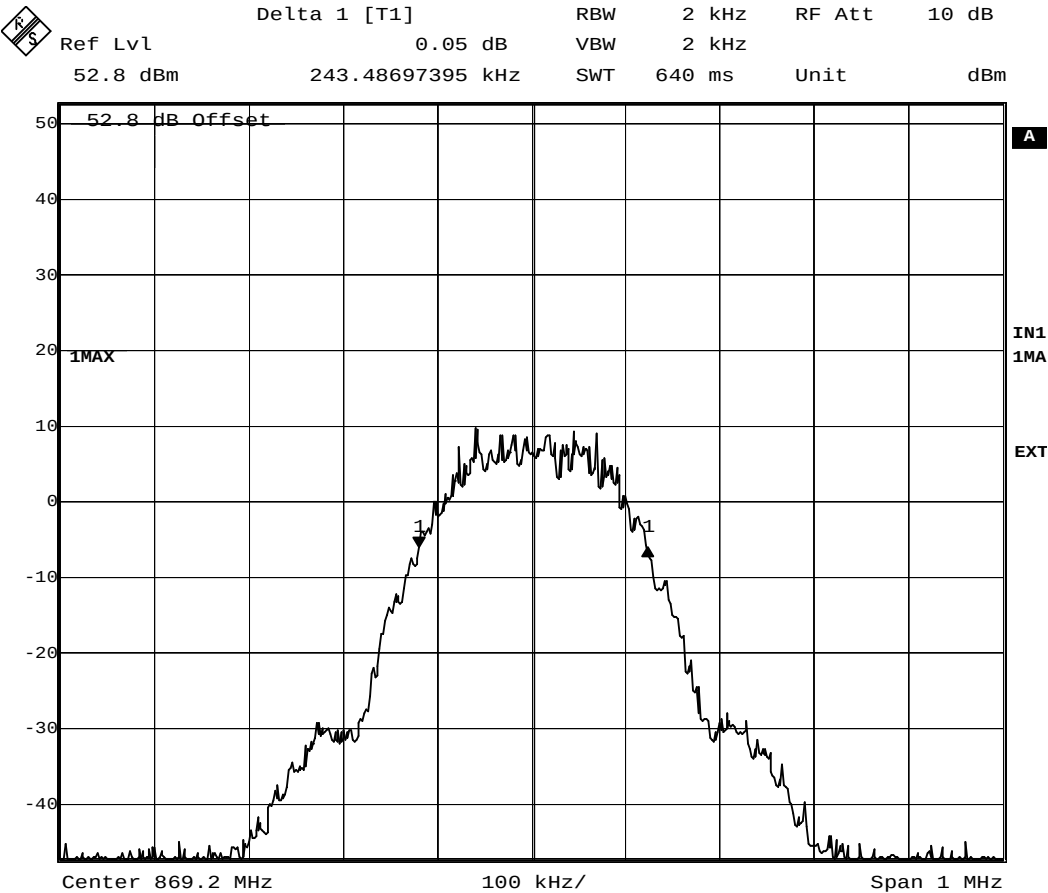
Ch 128

Sign:.....

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FCC ID: B5KPKRC1311005-1

26 dB point



52.8 dB Offset

IMAX

IN1

1MA

EXT

Center 869.2 MHz

100 kHz/

Span 1 MHz

Date: 13.DEC.2001 13:27:56

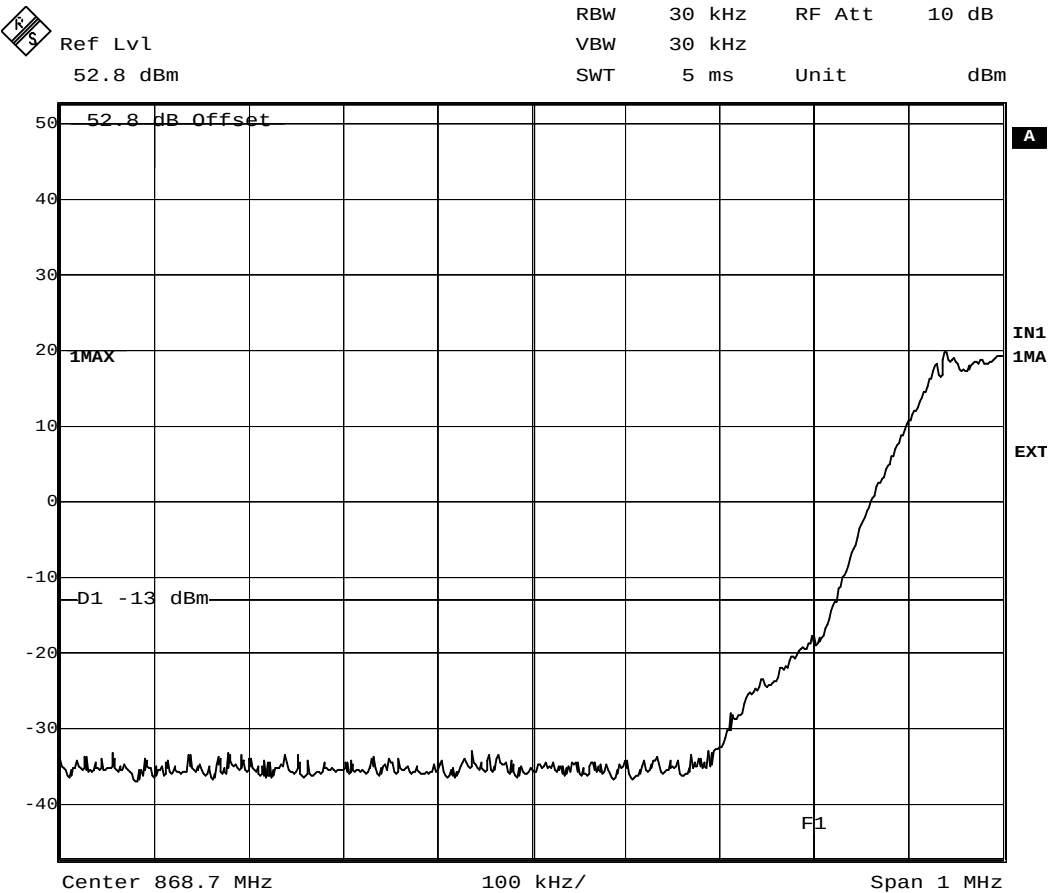
Ch 128

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Band edge level



Date: 13.DEC.2001 13:26:12

Ch 128

Sign:.....

REPORT

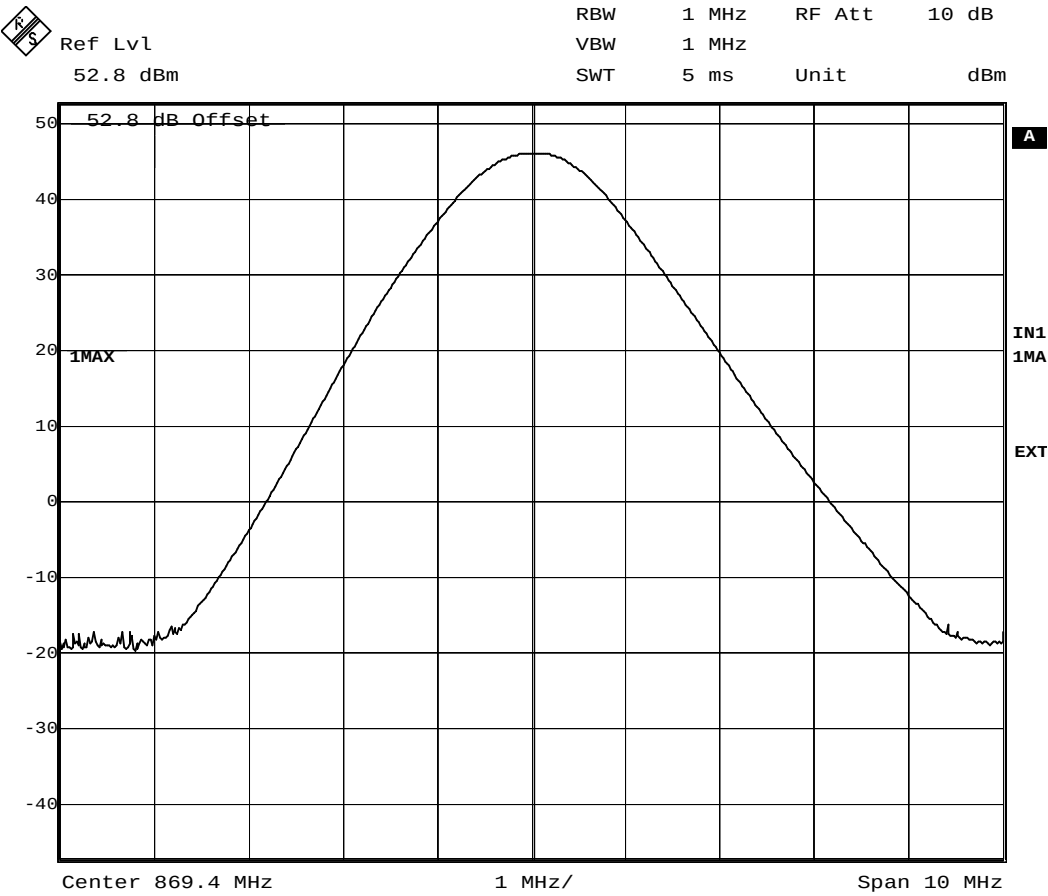
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2002-01-08

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Diagram 16

Reference level



Date: 13.DEC.2001 13:35:03

Ch 129

Sign:.....

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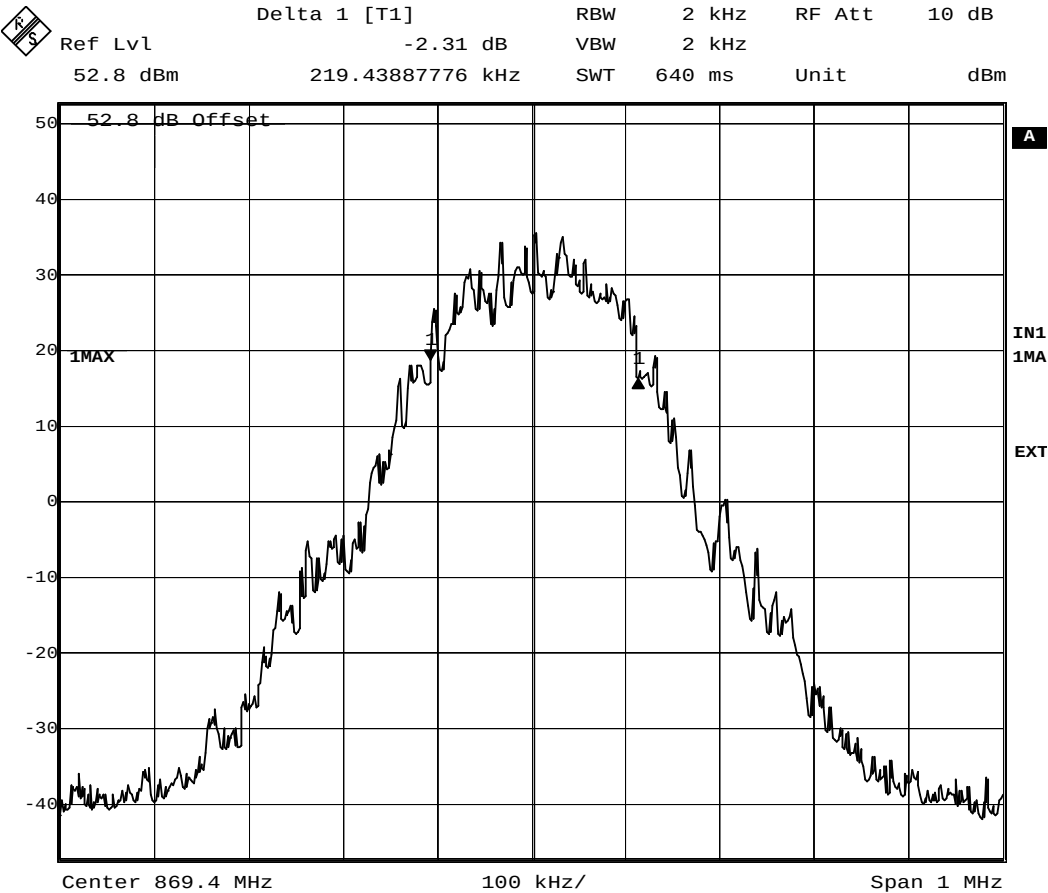
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Diagram 17

26 dB point

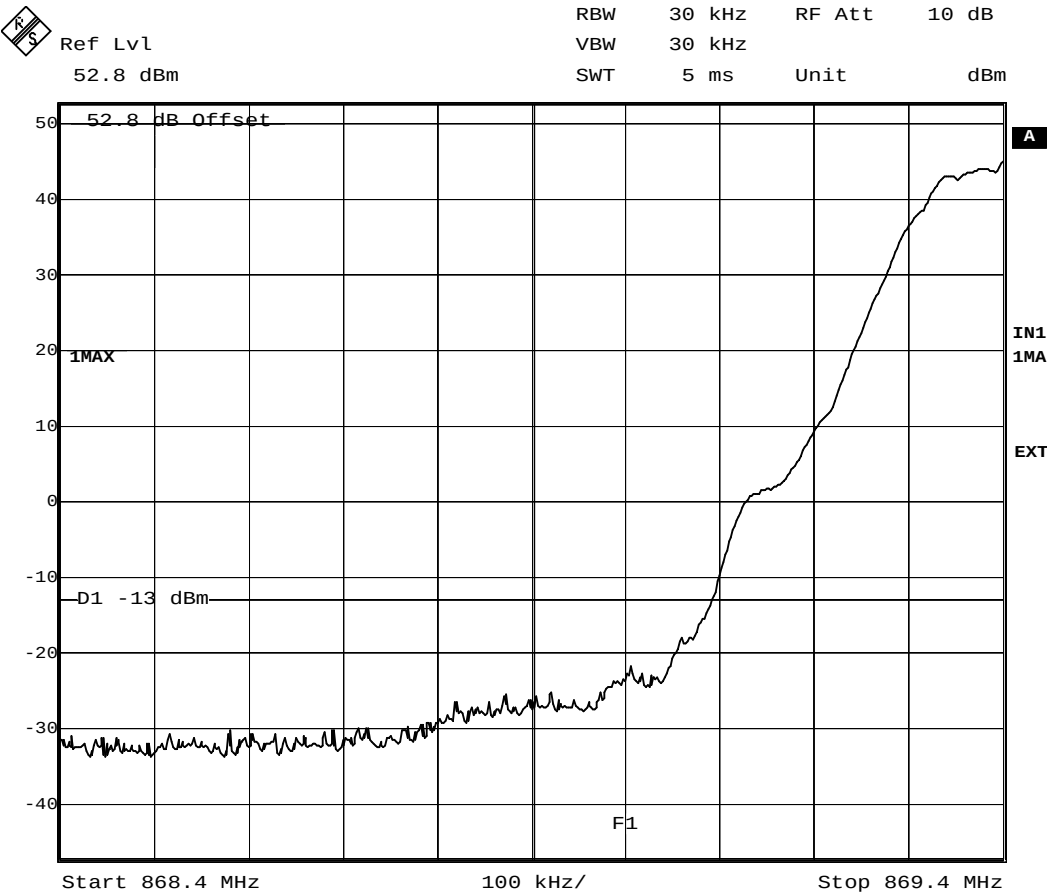


Date: 13.DEC.2001 13:36:04

REPORT

FCC ID: B5KPKRC1311005-1

Band edge level



Date: 13.DEC.2001 13:34:30

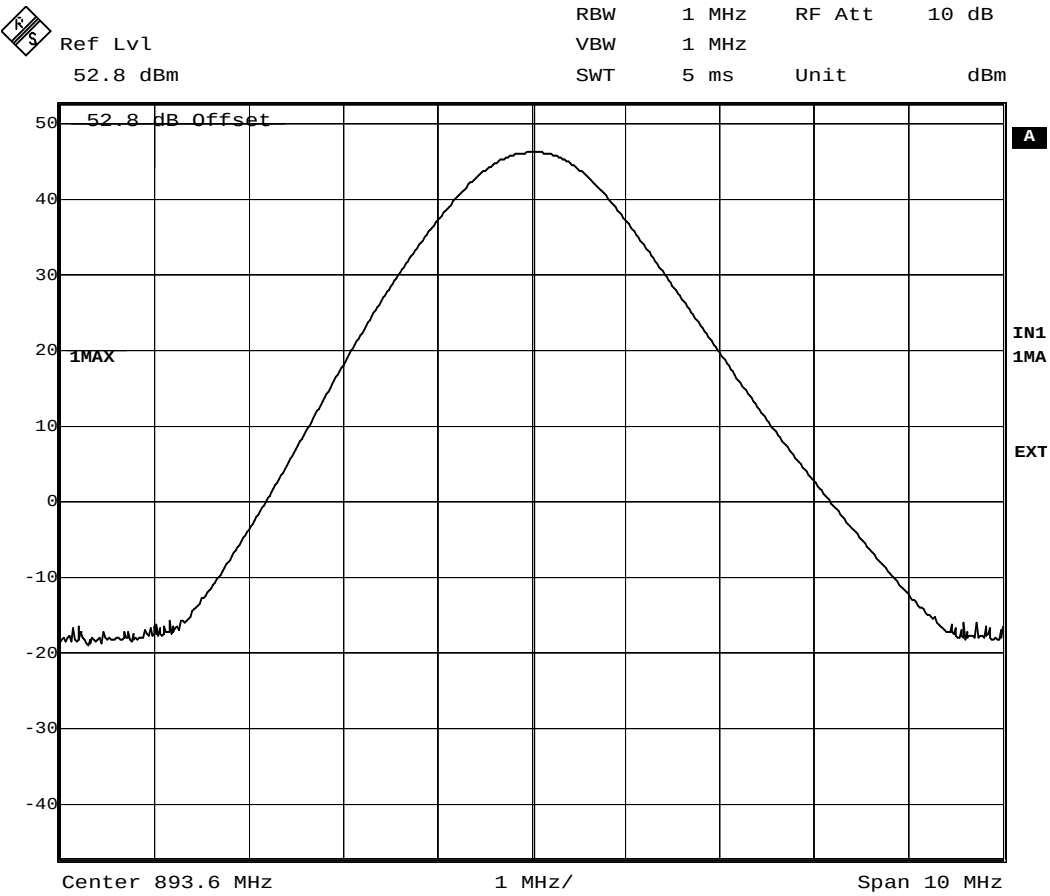
Ch 129

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Reference level



Date: 13.DEC.2001 12:35:38

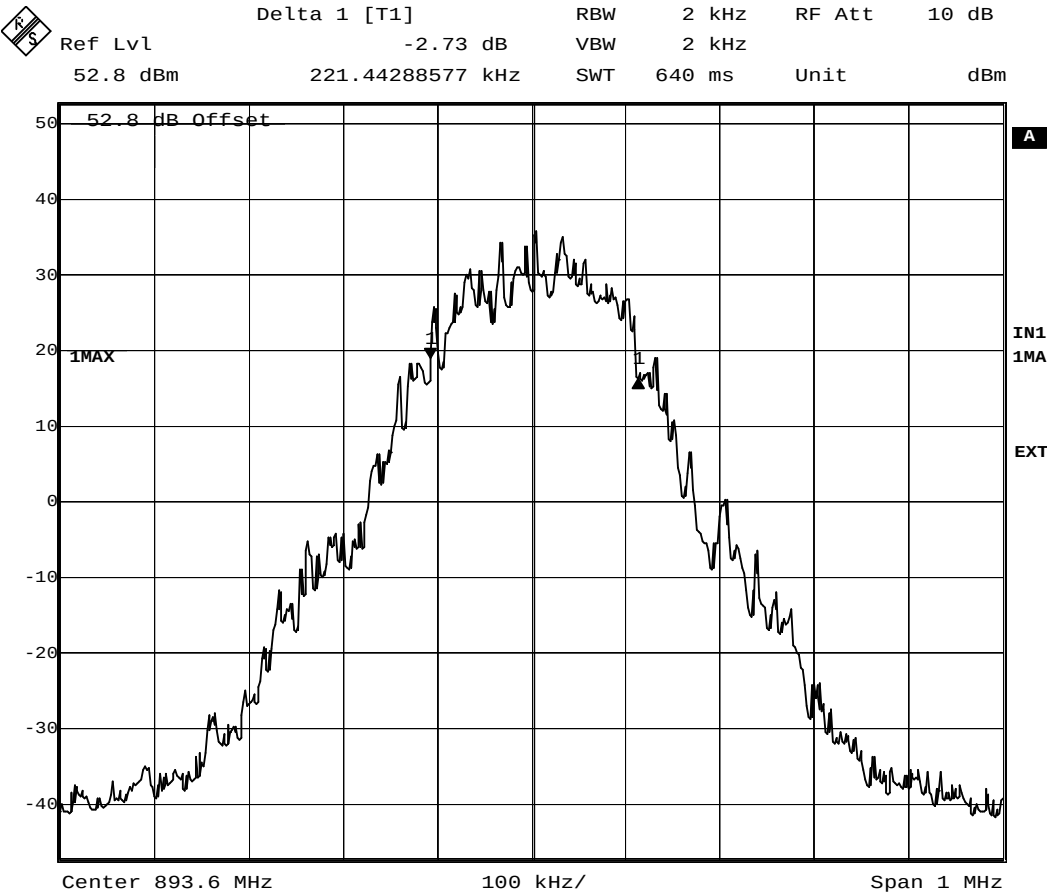
Ch 250

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

26 dB point



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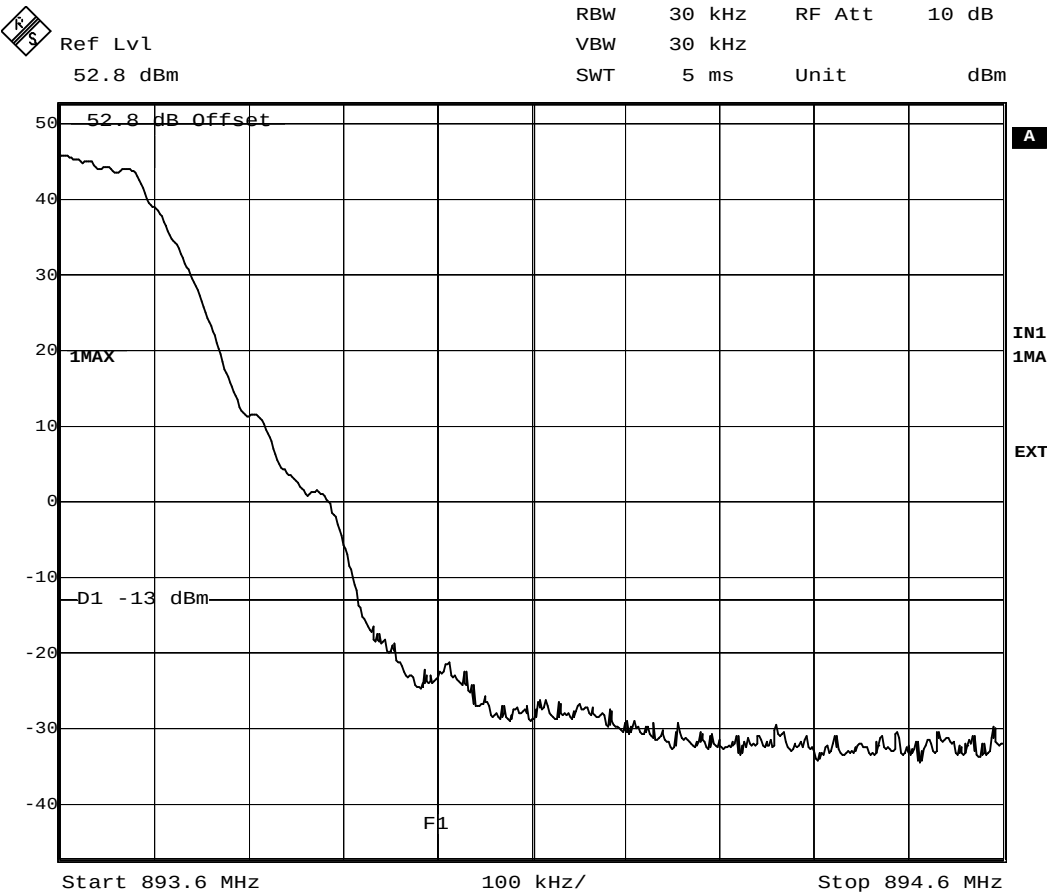
Ch 250

Sign:.....

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FCC ID: B5KPKRC1311005-1

Band edge level



Date: 13.DEC.2001 12:37:39

Ch 250

Sign:.....

REPORT

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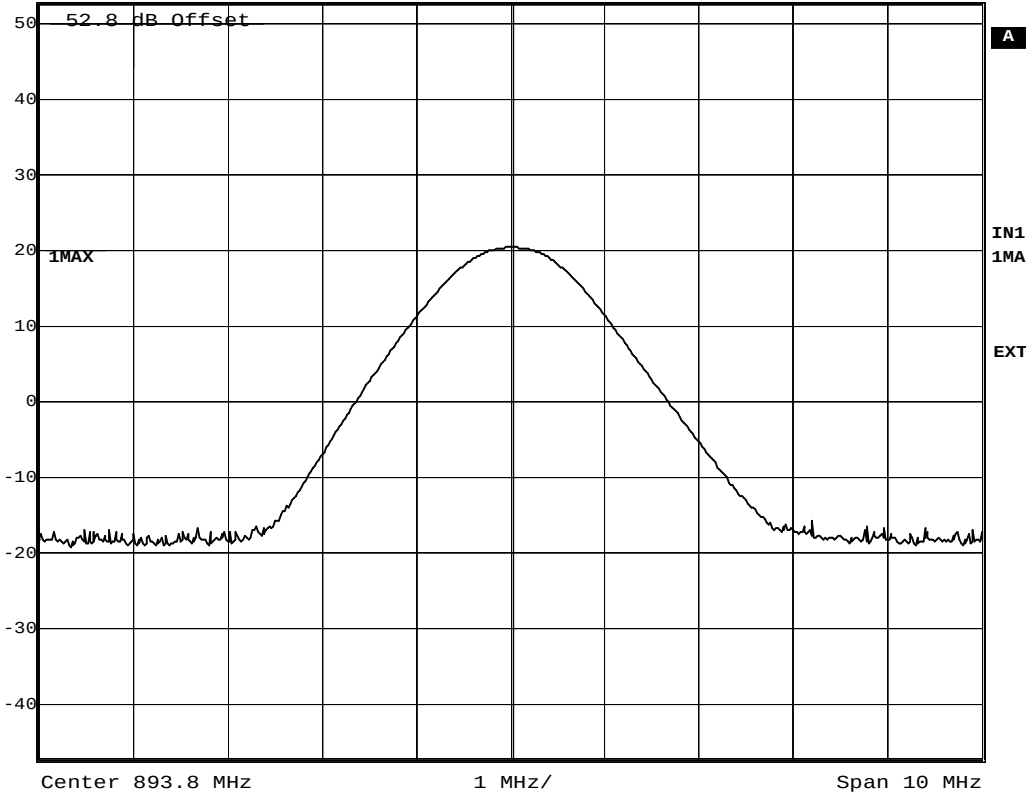
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Diagram 22

Reference level



Ref Lvl
52.8 dBm

RBW	1 MHz	RF Att	10 dB
VBW	1 MHz		
SWT	5 ms	Unit	dBm



Date: 13.DEC.2001 12:31:11

Ch 251

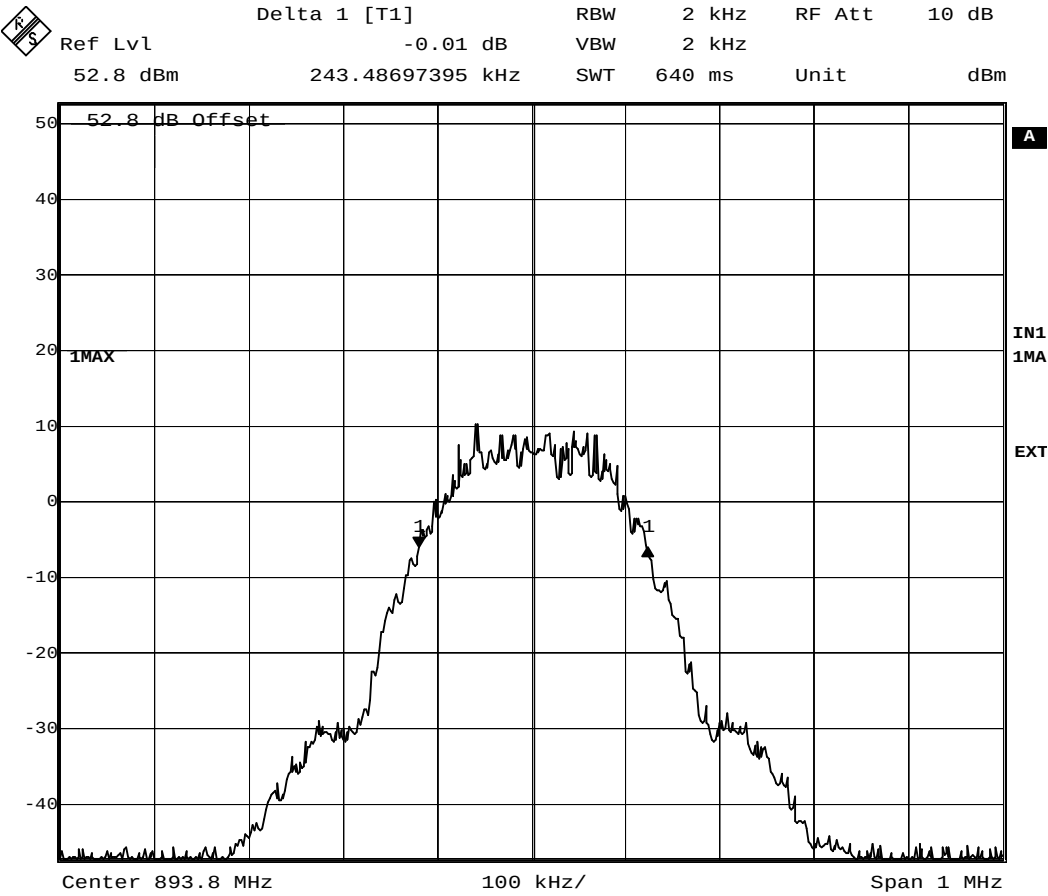
Sign:.....

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26 dB point



Date: 13.DEC.2001 12:32:23

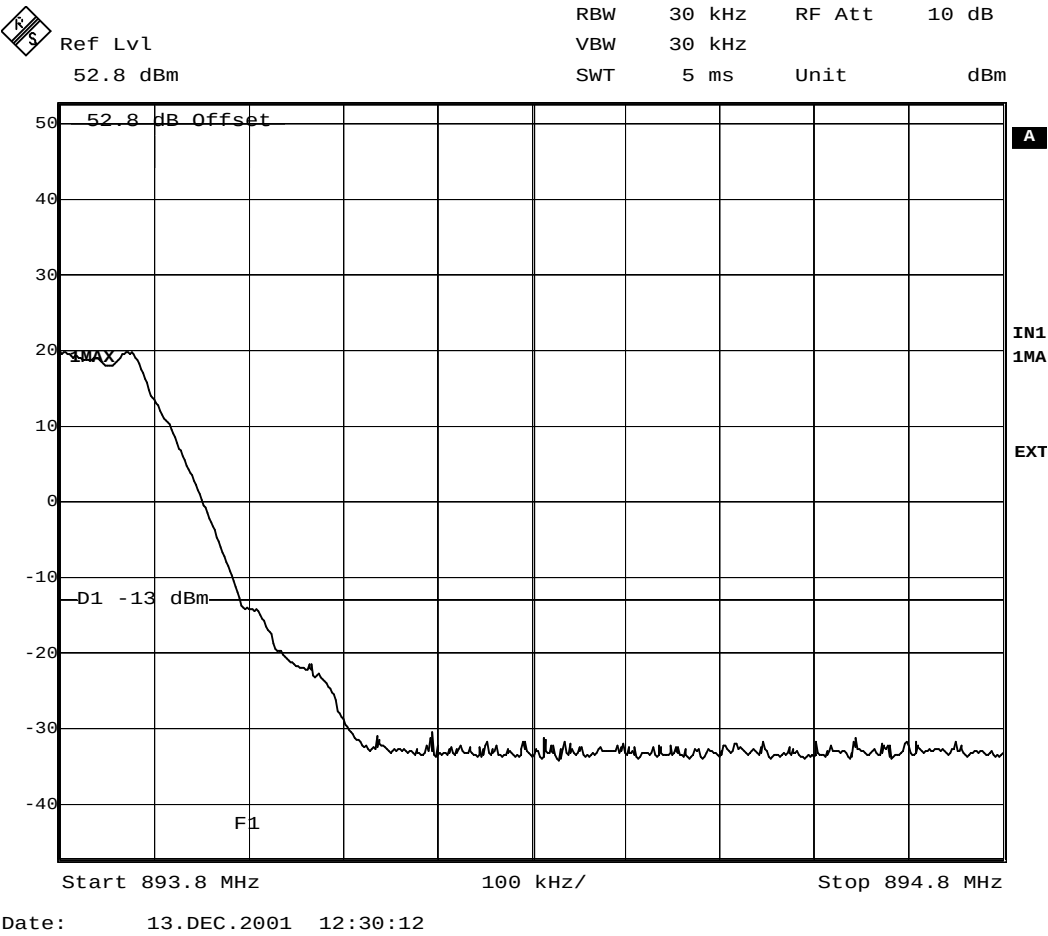
Ch 251

Sign:.....

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Band edge level



Ch 251

Sign:.....

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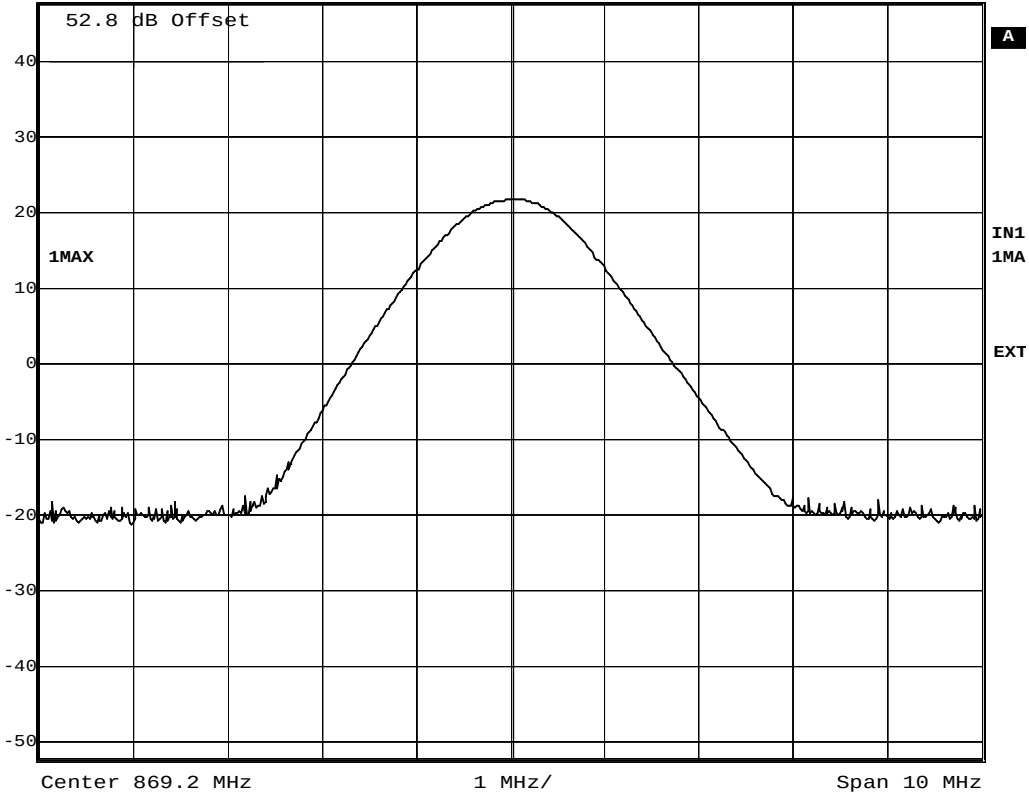
FCC ID: B5KPKRC1311005-1

Reference level



Ref Lvl
47.8 dBm

RBW	1 MHz	RF Att	10 dB
VBW	1 MHz		
SWT	5 ms	Unit	dBm



Date: 13.DEC.2001 10:28:28

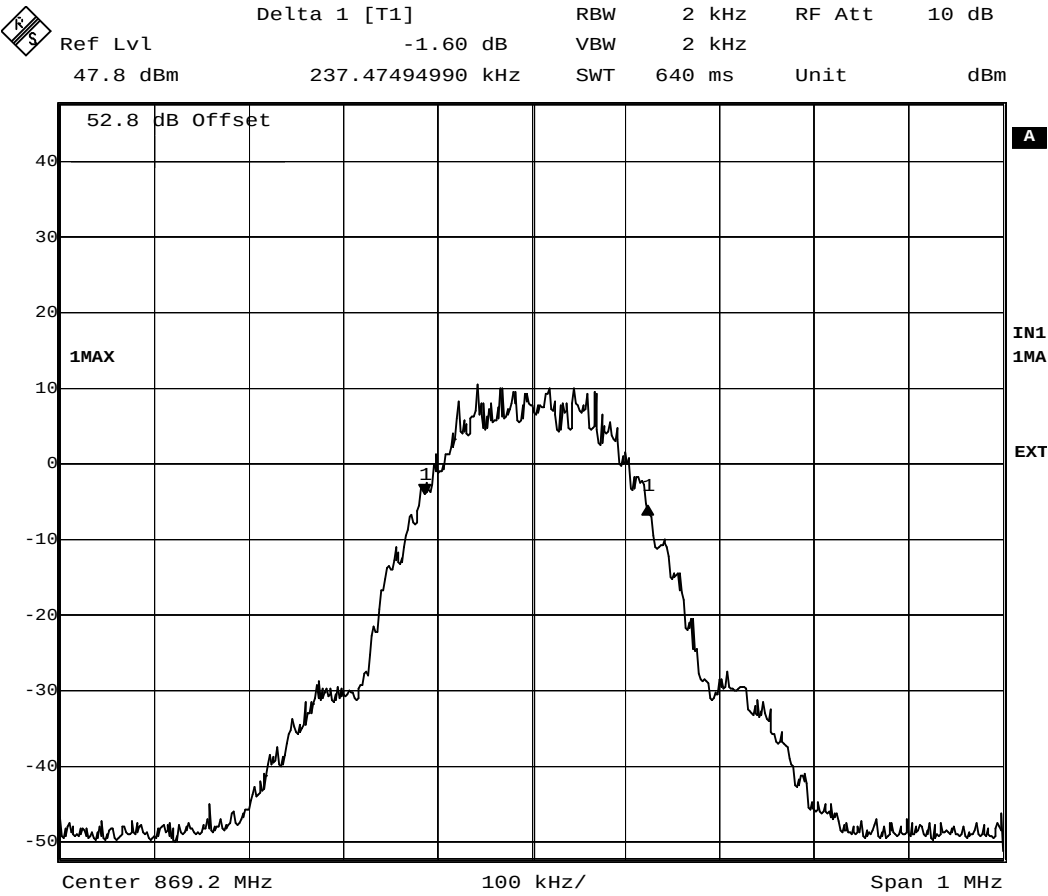
Ch 128

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

26 dB point



Date: 13.DEC.2001 10:29:39

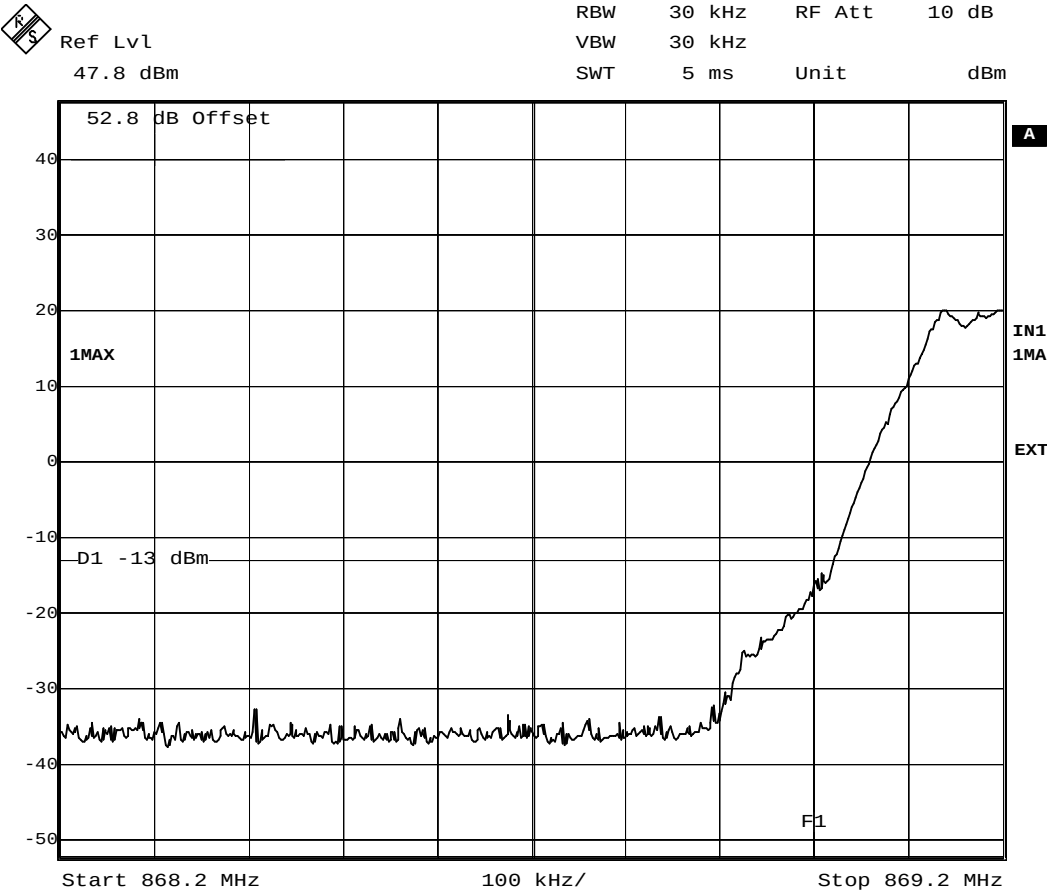
Ch 128

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Band edge level



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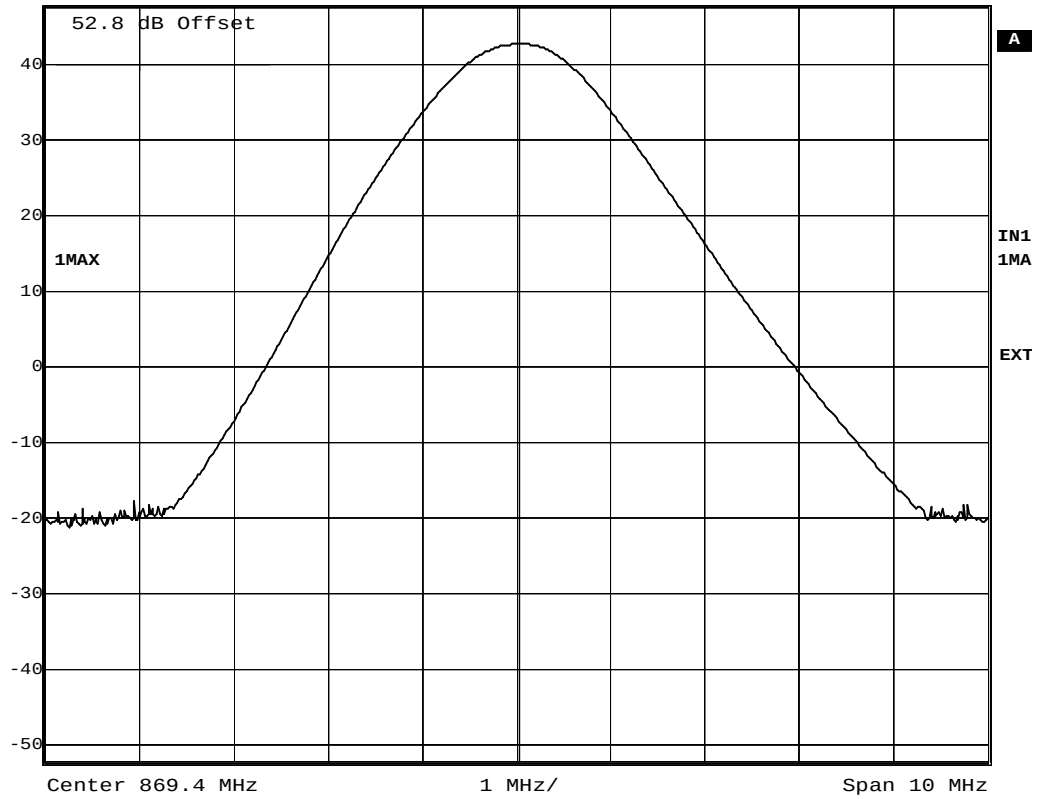
Ch 128

Sign:.....

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Diagram 28

RBW	1 MHz	RF Att	10 dB
VBW	1 MHz		
SWT	5 ms	Unit	dBm



Date: 13.DEC.2001 10:32:37

Ch 129

Sign:.....

REPORT

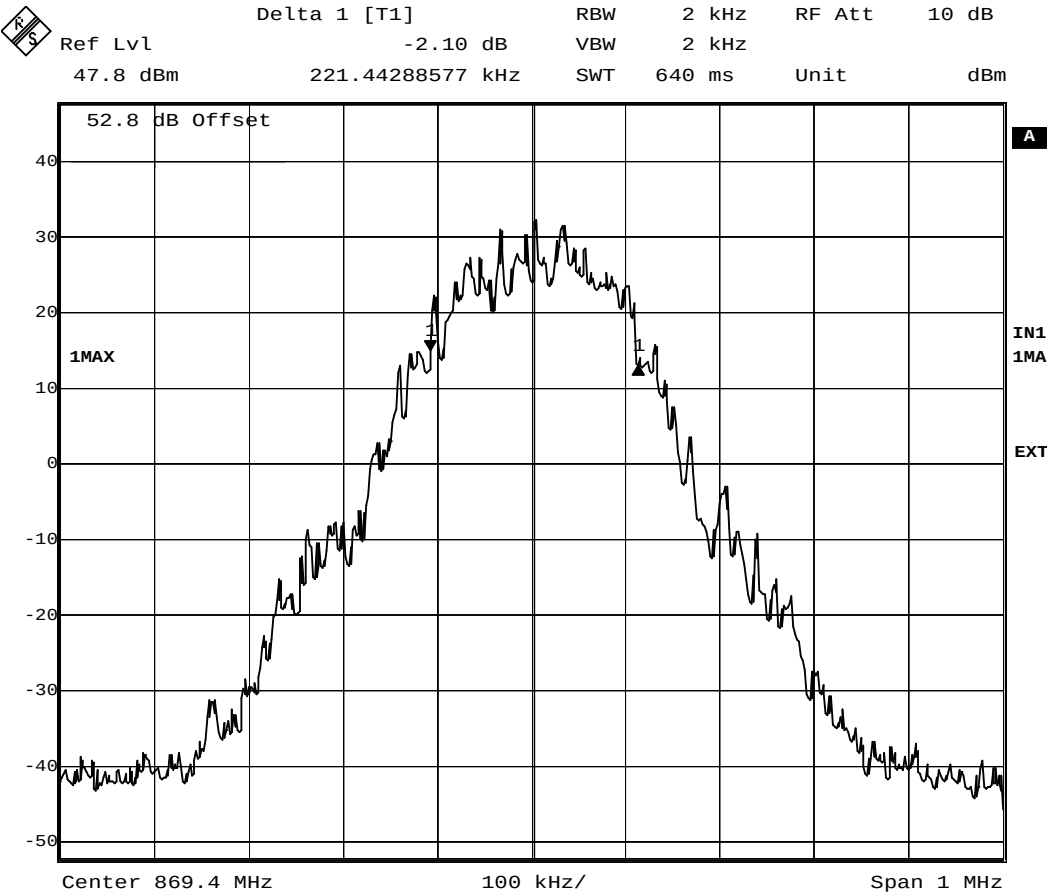
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Diagram 29

26 dB point



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Diagram 30

RBW	30 kHz	RF Att	10 dB
VBW	30 kHz		
SWT	5 ms	Unit	dBm

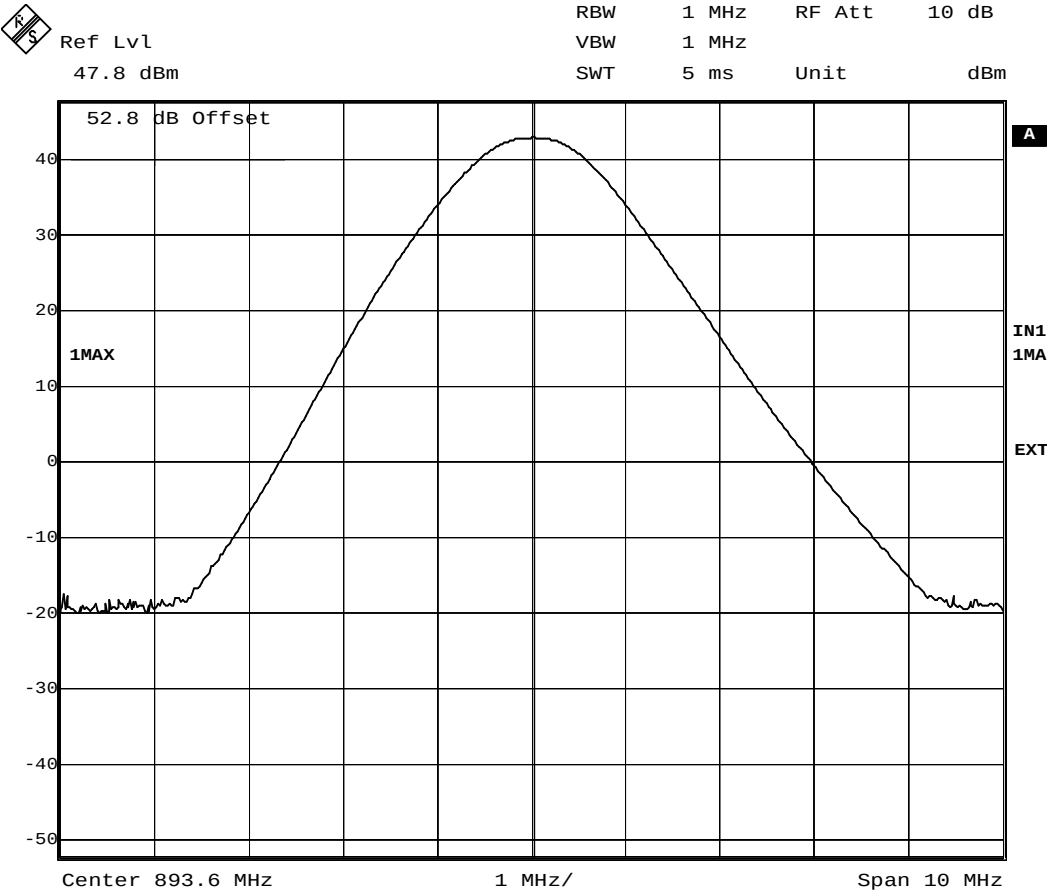


Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Reference level



Date: 13.DEC.2001 10:16:19

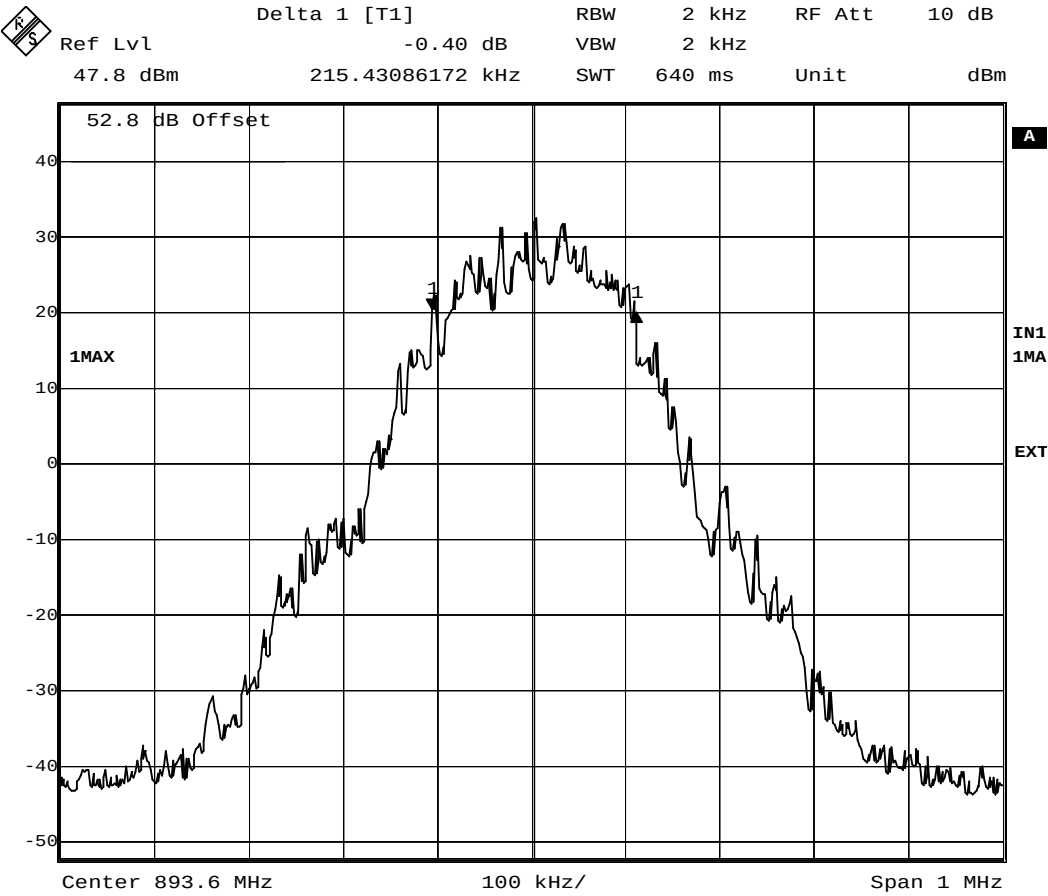
Ch 250

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

26 dB point



Date: 13.DEC.2001 10:17:42

Ch 250

Sign:.....

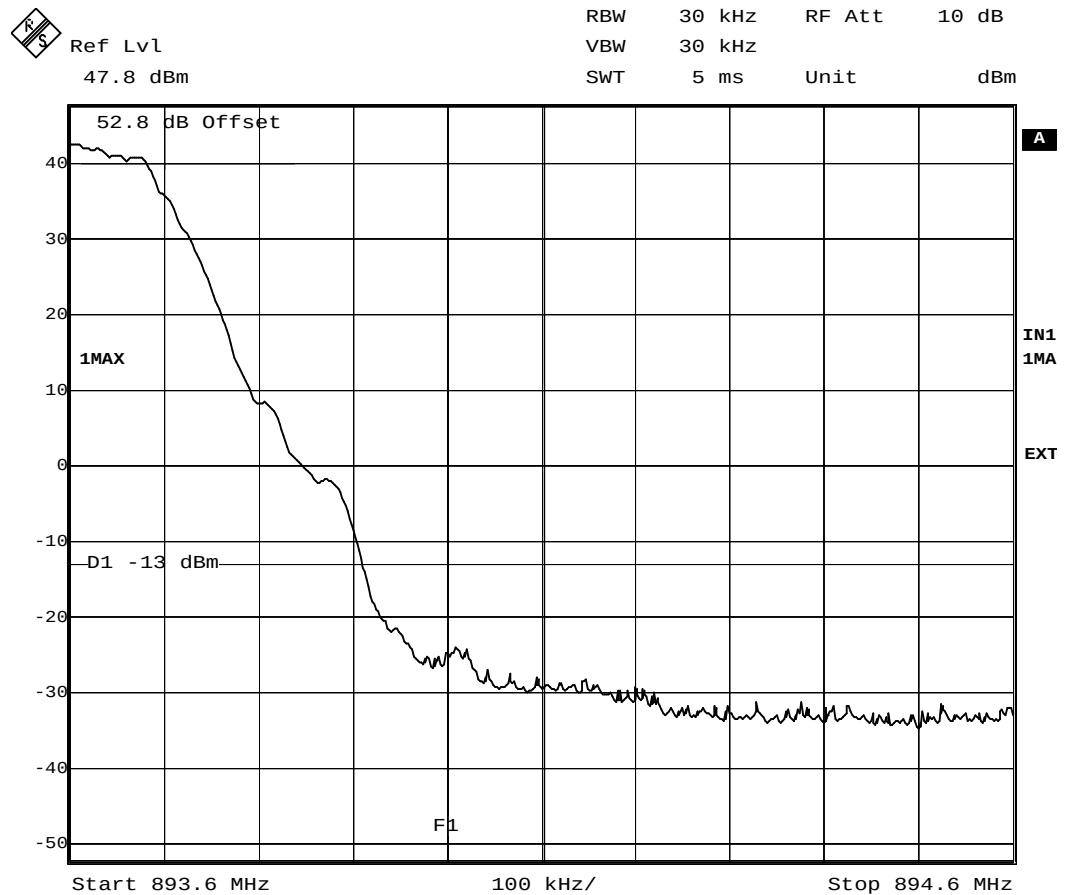
FCC ID: B5KPKRC1311005-1

Datum/*Date*
2002-01-08

Beteckning/Reference
F122706

Sida/Page
35 (38)
Encl. 4
Diagram 33

Band edge level



Date: 13.DEC.2001 10:19:41

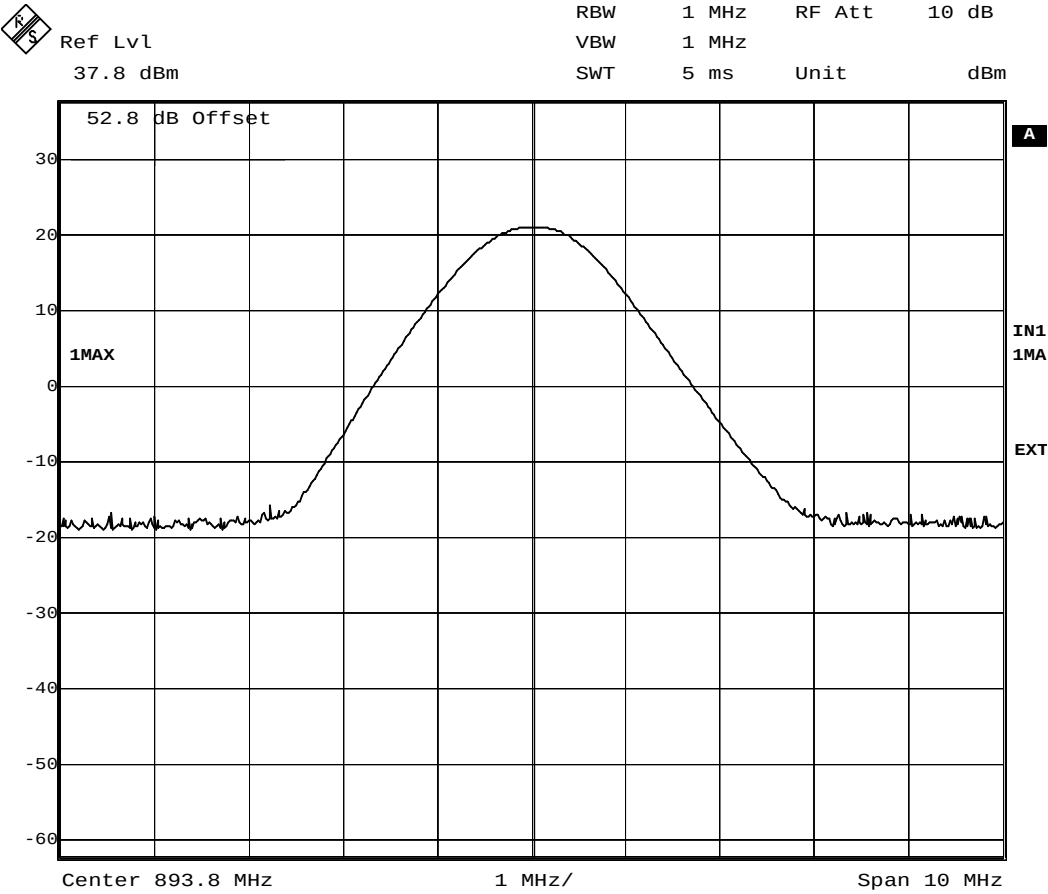
Ch 250

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Reference level



Date: 13.DEC.2001 10:05:23

Ch 251

Sign:.....

FCC ID: B5KPKRC1311005-1

Sida/Page
37 (38)
Encl. 4
Diagram 35

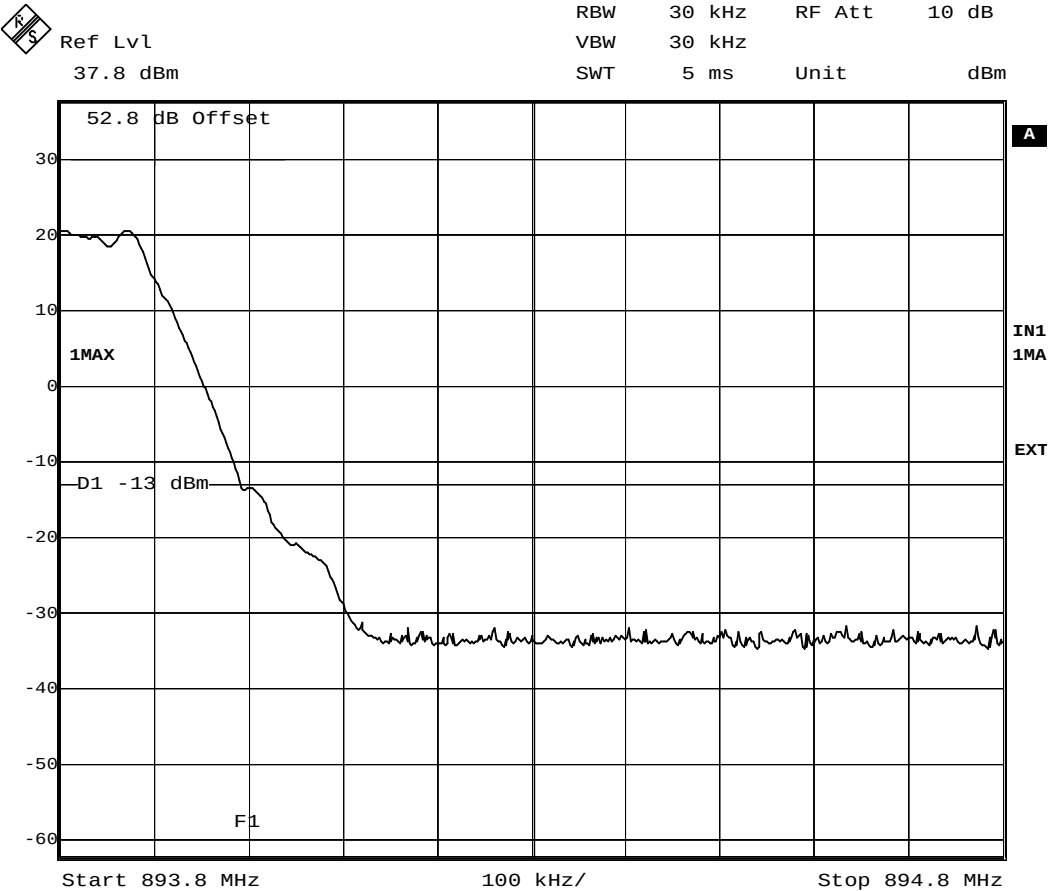
Ch 251

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Band edge level



Date: 13.DEC.2001 10:01:41

Ch 251

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Datum/Date
2002-01-08

Beteckning/Reference
F122706

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Encl. 5

Conducted spurious emission measurements according to 47CFR 2.1051

Date	Temperature	Humidity
2001-12-11	20 °C ± 3 °C	28 % ± 5 %
2001-12-13	20 °C ± 3 °C	28 % ± 5 %

Test set-up and Procedure

The measurement was made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a spectrum analyser. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
R&S ESI 40 with option FSE-B7	2002-07	503 125
Testo 615, Temperature and humidity meter	2003-08	503 505

Measurement uncertainty: 3.7 dB

Results

TRU s/n: AE50007E43 in cabinet 2206, revision R3A, without dTRU internal combiner:

Diagram 1: TRX output 1, Ch 128, +46.5 dBm

Diagram 2: TRX output 1, Ch 251, +46.5 dBm

Diagram 3: TRX output 2, Ch 128, +46.5 dBm

Diagram 4: TRX output 2, Ch 251, +46.5 dBm

TRU s/n: AE50007E43 in cabinet 2206, revision R3A, with dTRU internal combiner:

Diagram 5: TRU, Ch 128, +43 dBm and ch 153, +43 dBm

Diagram 6: TRU, Ch 226, +43 dBm and ch 251, +43 dBm

Limits

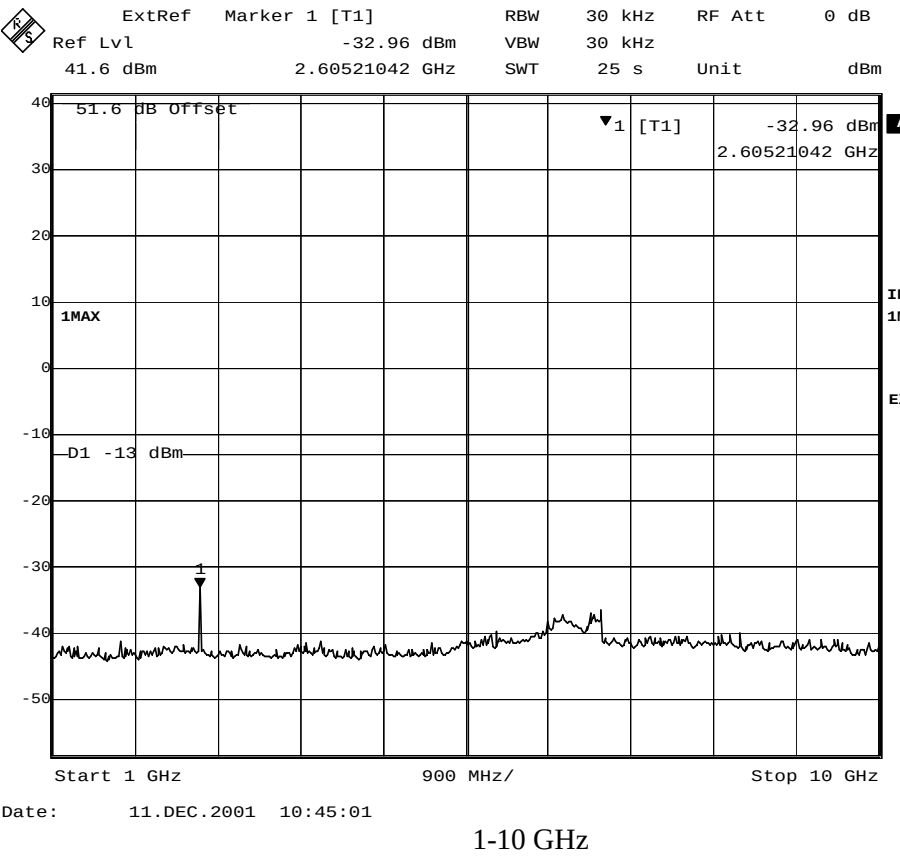
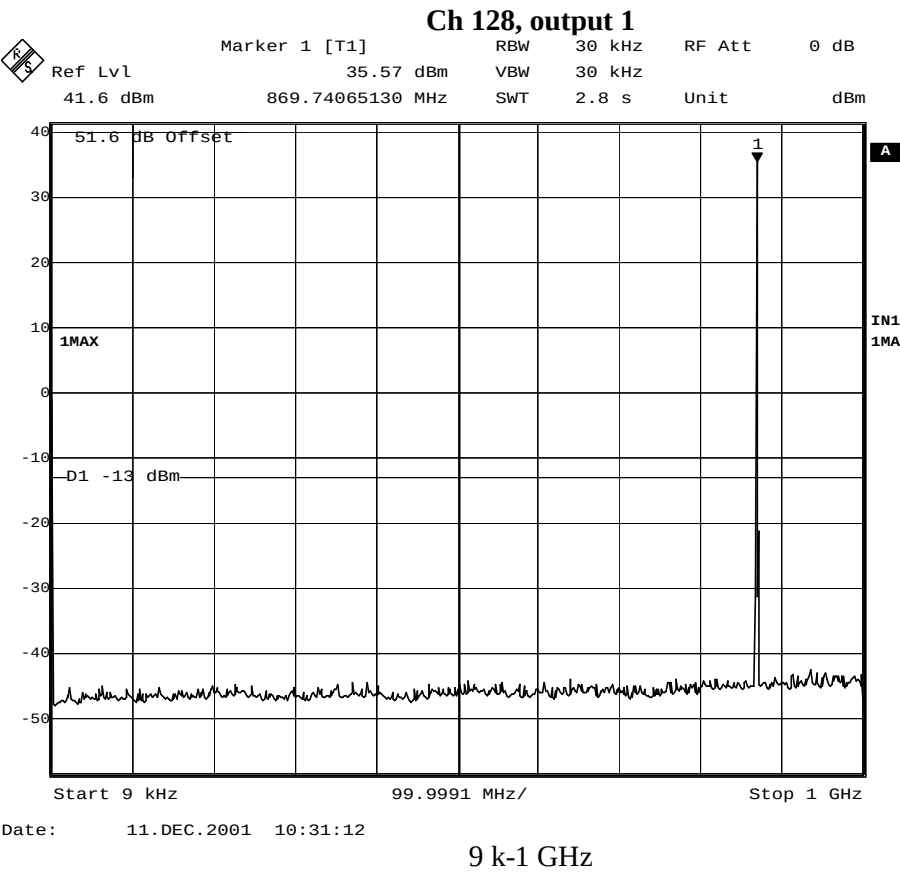
The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least $43 + 10 \log P$ dB.

Compliant?	Yes
------------	-----

Sign:.....

REPORT

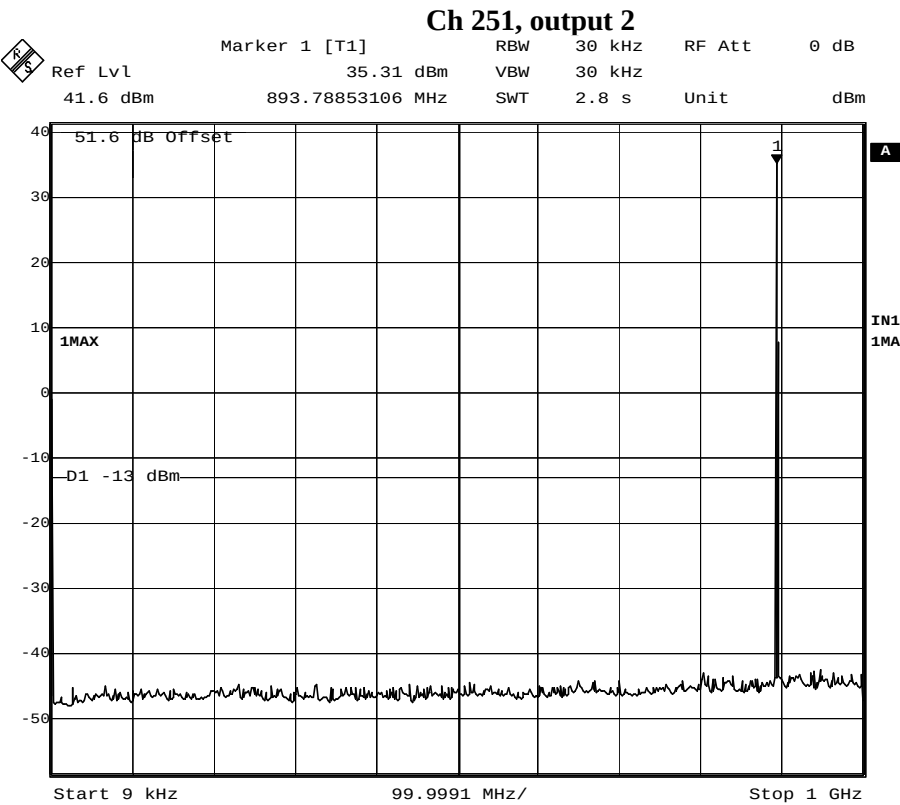
FCC ID: B5KPKRC1311005-1



Sign:.....

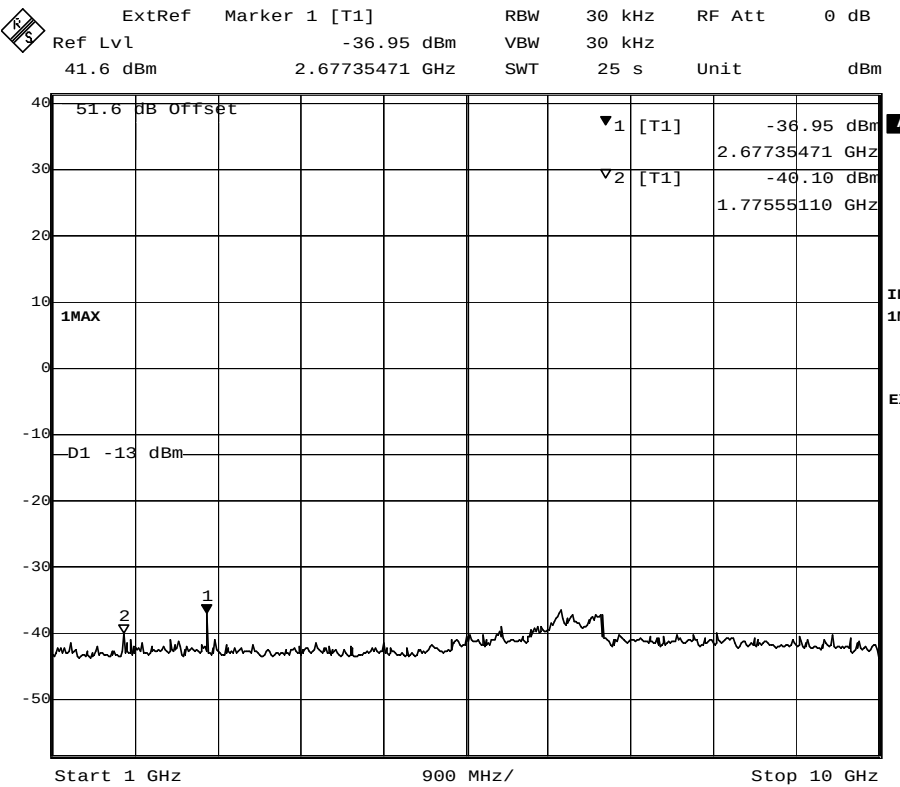
REPORT

FCC ID: B5KPKRC1311005-1



Date: 11.DEC.2001 10:34:18

9 k-1 GHz



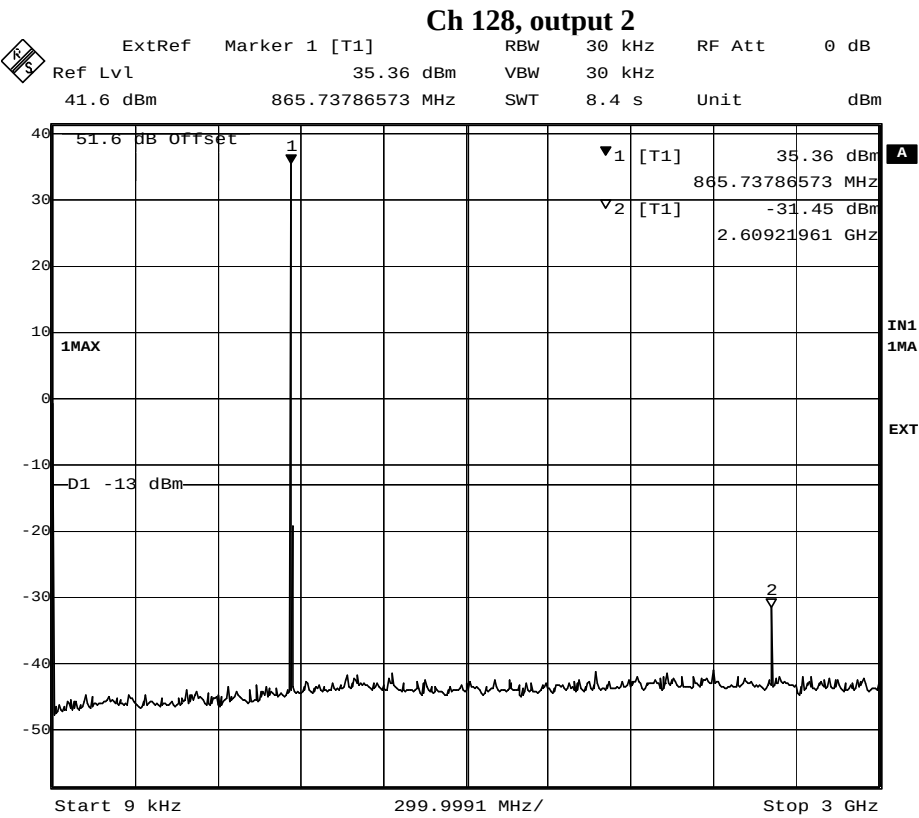
Date: 11.DEC.2001 10:41:31

1-10 GHz

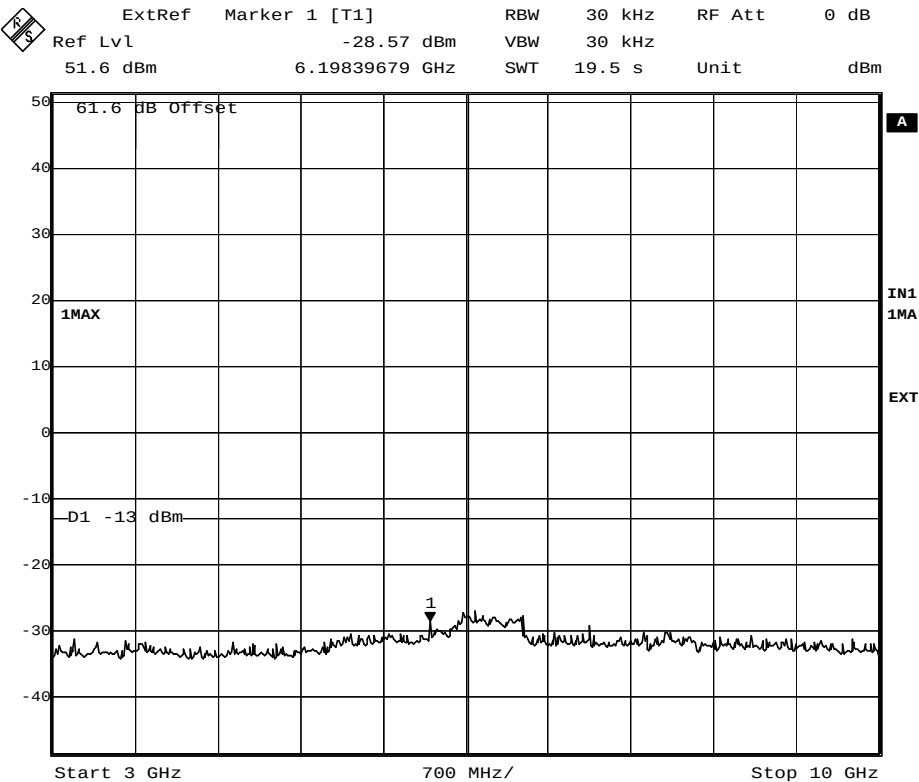
Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1



9 k-3 GHz

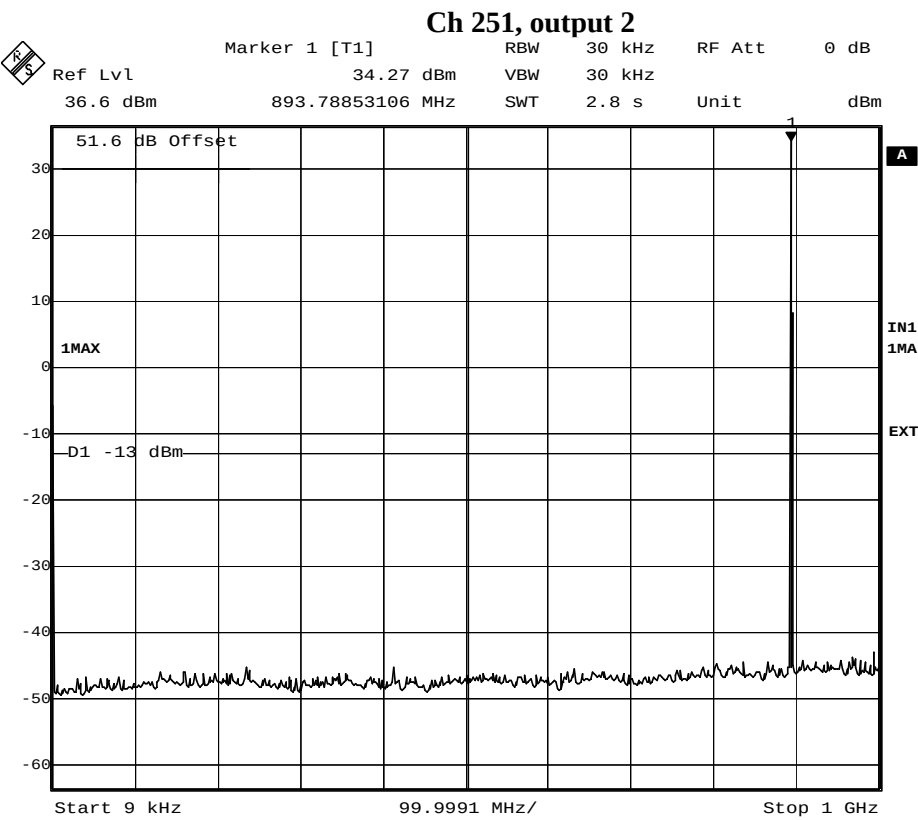


3-10 GHz

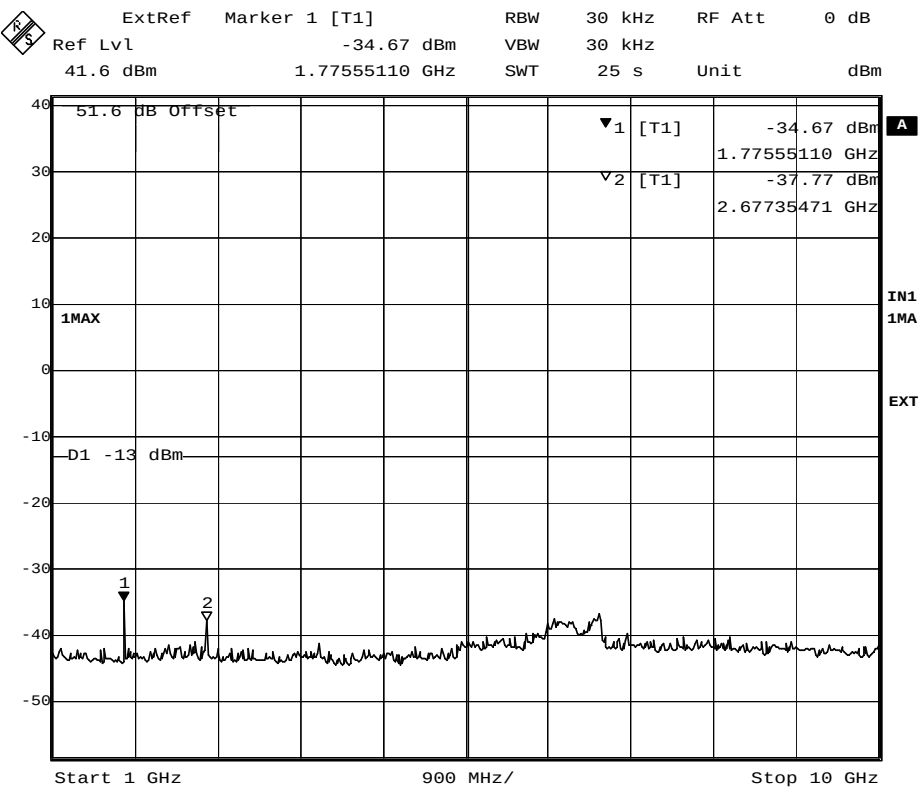
Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1



9 k-1 GHz

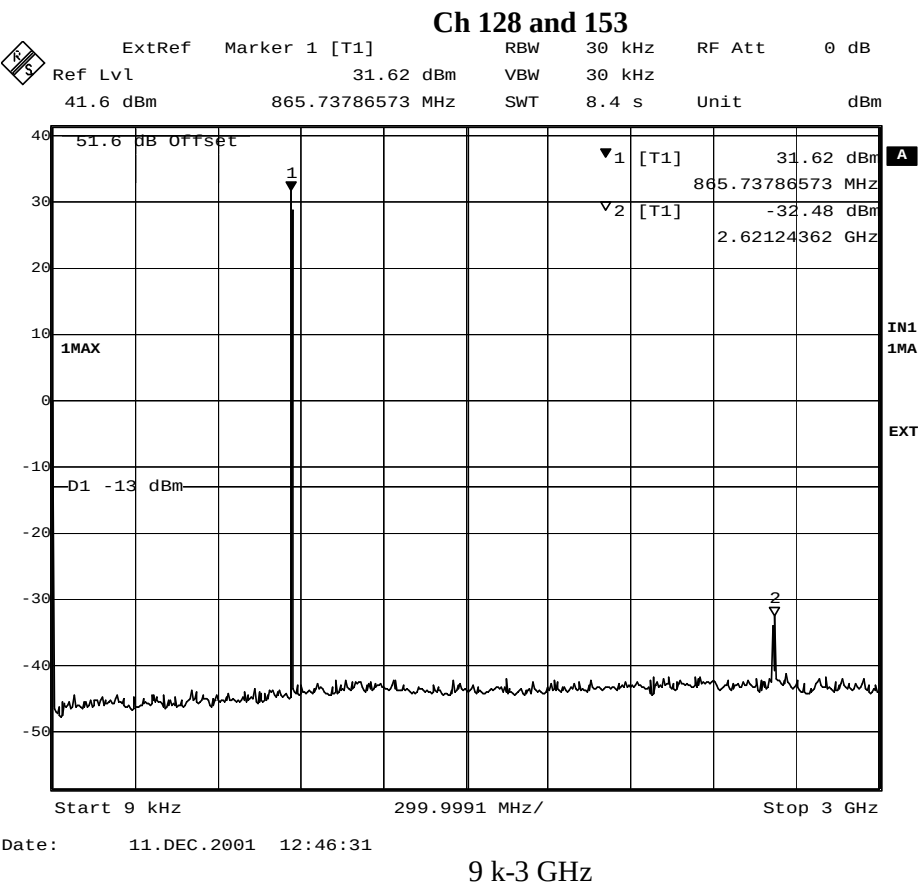


1-10 GHz

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1



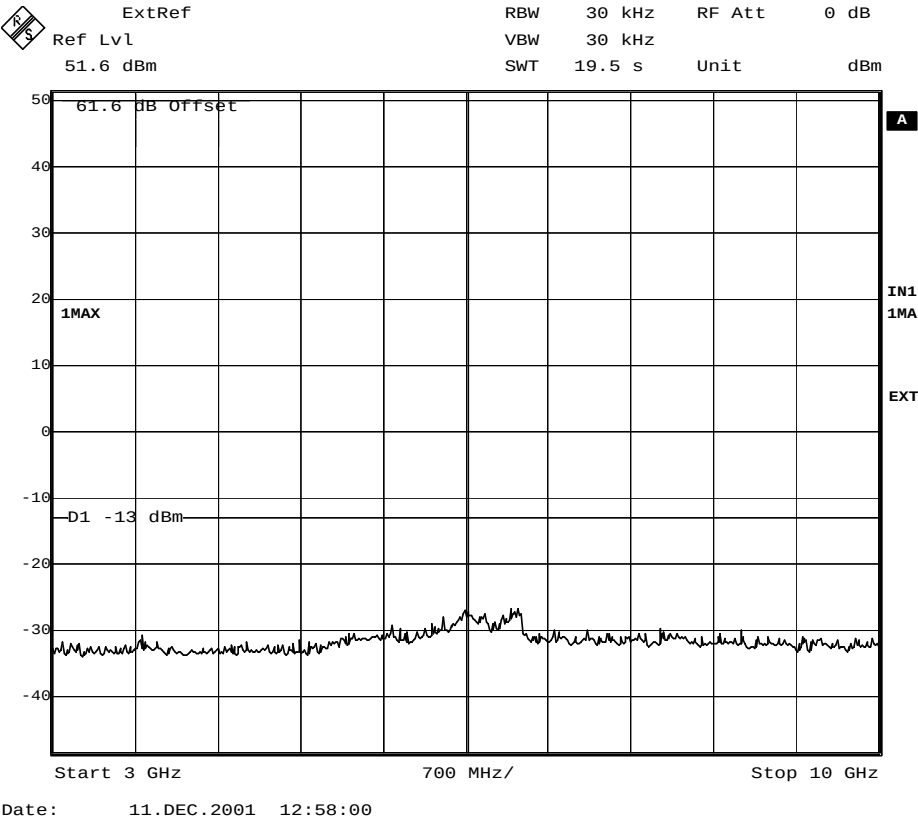
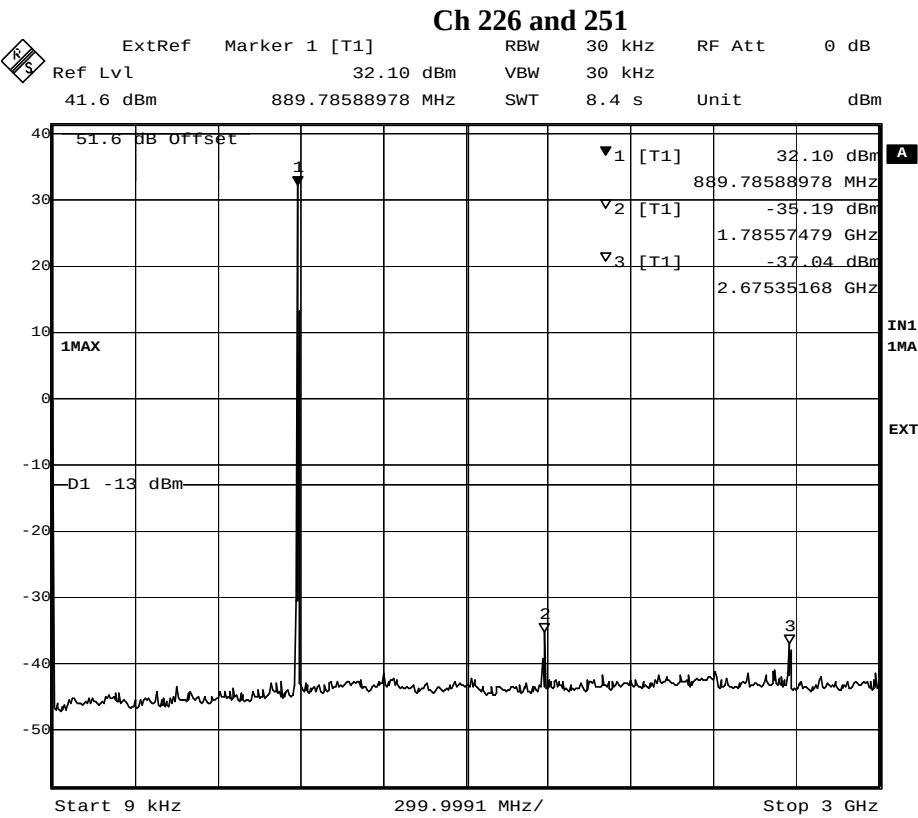
REPORT

FCC ID: B5KPKRC1311005-1

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2002-01-08

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Encl. 5
Diagram 6



Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Datum/Date
2002-01-08

Beteckning/Reference
F122706

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Encl. 6

Field strength of spurious radiation measurements according to 47CFR 2.1053

Date 2001-12-14	Temperature 21 °C ± 3 °C	Humidity 25 % ± 5 %
--------------------	-----------------------------	------------------------

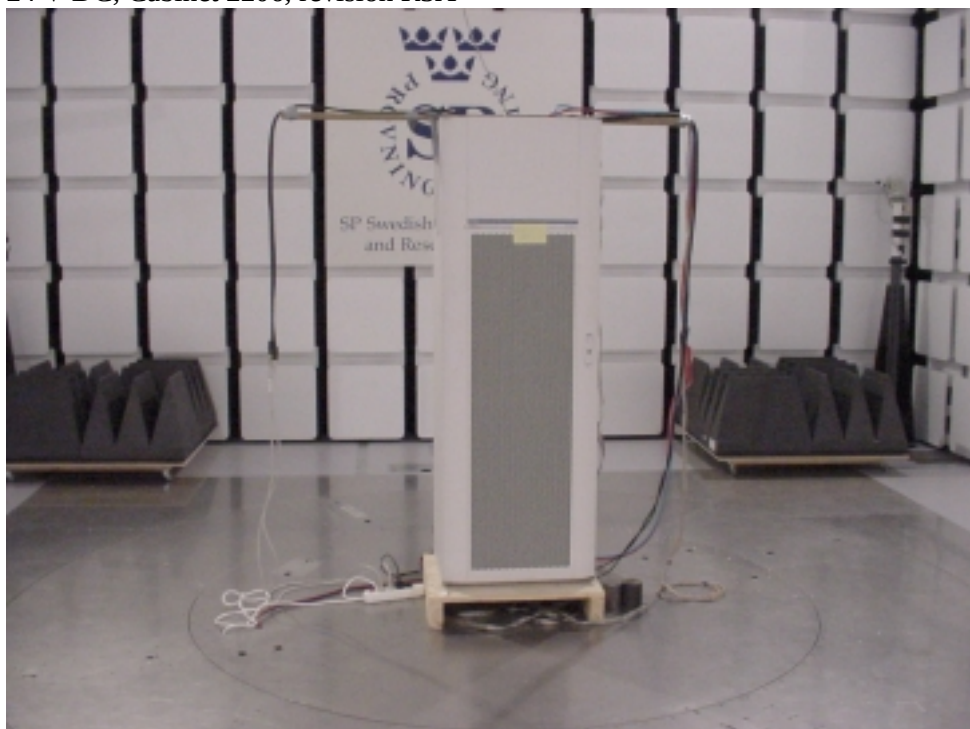
Test set-up and Procedure

The measurement procedure is per ANSI/TIA/EIA-603-1992. The substitution measurements were performed in an anechoic chamber. The chamber is listed at FCC, Columbia with registration number: 93866. Measurements were done at 3 m distance in the frequency range 9 kHz-10 GHz. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
Anechoic chamber	-	15:115
R&S ESI 26	2002-11	503 292
Control computer	-	503 479
Software: R&S ES-K1, ver. 1.60	-	-
Chase Bilog antenna CBL 6111A	2002-02	503 182
Schwarzbeck Precision dipole	2001-12	500 592
Schwarzbeck Precision dipole	2001-12	500 594
EMCO loop antenna 6502	2002-07	502 916
EMCO Horn Antenna 3115	2002-09	502 175
EMCO Horn Antenna 3115	2002-09	501 548
EMCO Horn Antenna 3116	2002-04	503 279
MITEQ Low Noise Amplifier	2002-02	503 277
Testo 615, Temperature and humidity meter	2003-08	503 505

The test set-up during spurious radiation measurements can be seen in the pictures below.

24 V DC, Cabinet 2206, revision R3A



Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

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Results

Cabinet 2206, revision R3A, two modes at the same time: internal combiner and without internal combiner.

Nominal Voltage 24 V DC

Output power without internal combiner: +46.5 dBm

Output power with internal combiner: +43 dBm

Frequency (MHz)	Spurious emission level (dBm)	
	Vertical	Horizontal
0.009-10 000	All emission > 20 dB below limit	All emission > 20 dB below limit
Measurement uncertainty		4.7 dB

Limits

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

Compliant?	Yes
------------	-----

Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

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Frequency stability measurements according to 47CFR 2.1055

Date	Temperature	Humidity
2001-12-05	23 °C ± 3 °C	20 % ± 5 %
2001-12-06	24 °C ± 3 °C	21 % ± 5 %
2001-12-07	25 °C ± 3 °C	22 % ± 5 %

Test set-up and Procedure

The measurement was made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a spectrum analyser. The spectrum analyzer was hooked up to an external 10 MHz reference standard during measurement. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
Climate chamber	2003-11	501 031
R&S ESI 40 with option FSE-B7	2002-07	503 125
Temperature probe	2002-01	500 239
Testo 610, Temperature and humidity meter	2003-08	503 498

Results

Nominal Voltage 24 V DC

46.5 dBm output power at Channel 128 (869.2 MHz)

Test conditions		Frequency error (Hz)	
Supply voltage (V)	T (°C)	TRU Output 1	TRU Output 2
24.0	+20	-2	1
24.0	+30	24	18
24.0	+40	3	2
24.0	+50	-3	2
24.0	+10	0	0
24.0	0	-2	-5
24.0	-10	-4	-5
24.0	-20	-2	0
24.0	-30	-2	-5
24.0	+20	-2	0
27.6	+20	3	-3
20.4	+20	2	-4
Maximum freq. error (kHz)		0.024	
Measurement uncertainty		< ± 1 x 10 ⁻⁷	

Sign:.....

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Limits

The maximum frequency error shall not be greater than 0.05 ppm (43.5 Hz).

Compliant?	Yes
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Sign:.....

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Intermodulation test

Date 2001-12-12	Temperature 22 °C ± 3 °C	Humidity 25 % ± 5 %
--------------------	-----------------------------	------------------------

Test set-up and Procedure

The output was connected to a spectrum analyzer. The spectrum analyzer was hooked up to an external 10 MHz reference standard during measurement.
The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
R&S ESI 40 with option FSE-B7	2002-07	503 125
Testo 615, Temperature and humidity meter	2003-08	503 505

Results

Without dTRU internal combiner:

Diagram 1 TRU Output 1: Ch 128, +46.5 dBm
(TRU Output 2: Ch 153, +46.5 dBm terminated with 50 Ω)

Diagram 2 TRU Output 1: Ch 251, +46.5 dBm
(TRU Output 2: Ch 226, +46.5 dBm terminated with 50 Ω)

Diagram 3 TRU Output 2: Ch 128, +46.5 dBm
(TRU Output 1: Ch 153, +46.5 dBm terminated with 50 Ω)

Diagram 4 TRU Output 2: Ch 251, +46.5 dBm
(TRU Output 1: Ch 226, +46.5 dBm terminated with 50 Ω)

With dTRU internal combiner:

Diagram 5 TRU Output 1: Ch 128, +43 dBm
TRU Output 2: Ch 153, +43 dBm

Diagram 6 TRU Output 1: Ch 226, +43 dBm
TRU Output 2: Ch 251, +43 dBm

Diagram 7 In band, 859-904 MHz, TRU Output 1: Ch 128, +43 dBm
TRU Output 2: Ch 153, +43 dBm

In band, 859-904 MHz, TRU Output 1: Ch 226, +43 dBm
TRU Output 2: Ch 251, +43 dBm

Limits

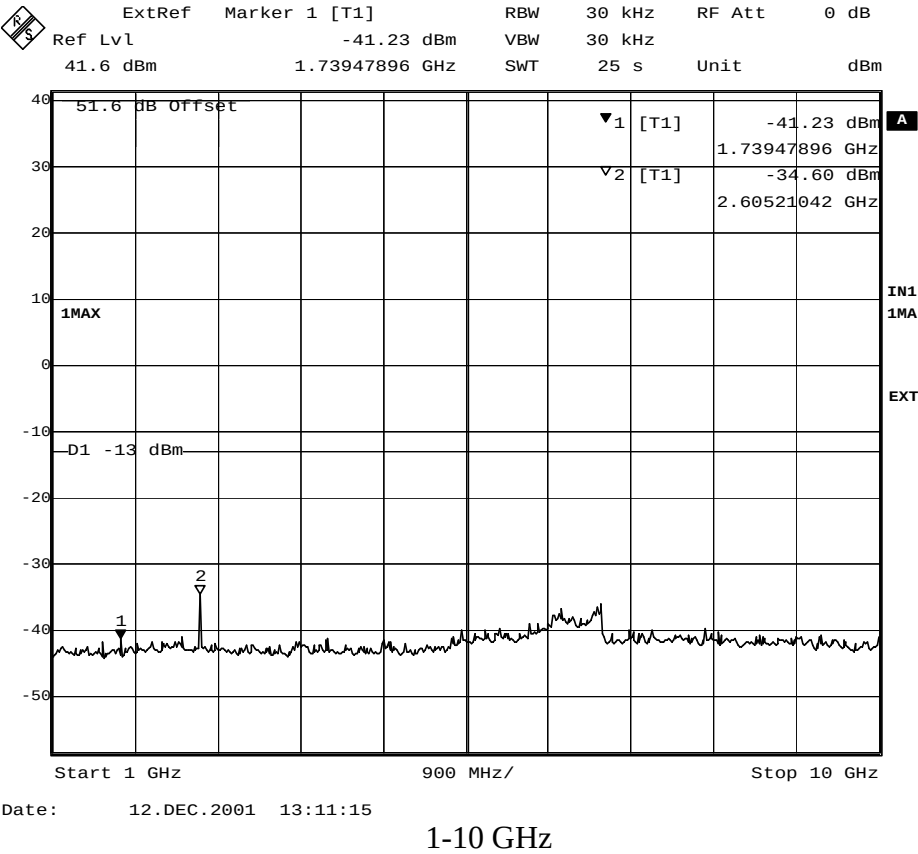
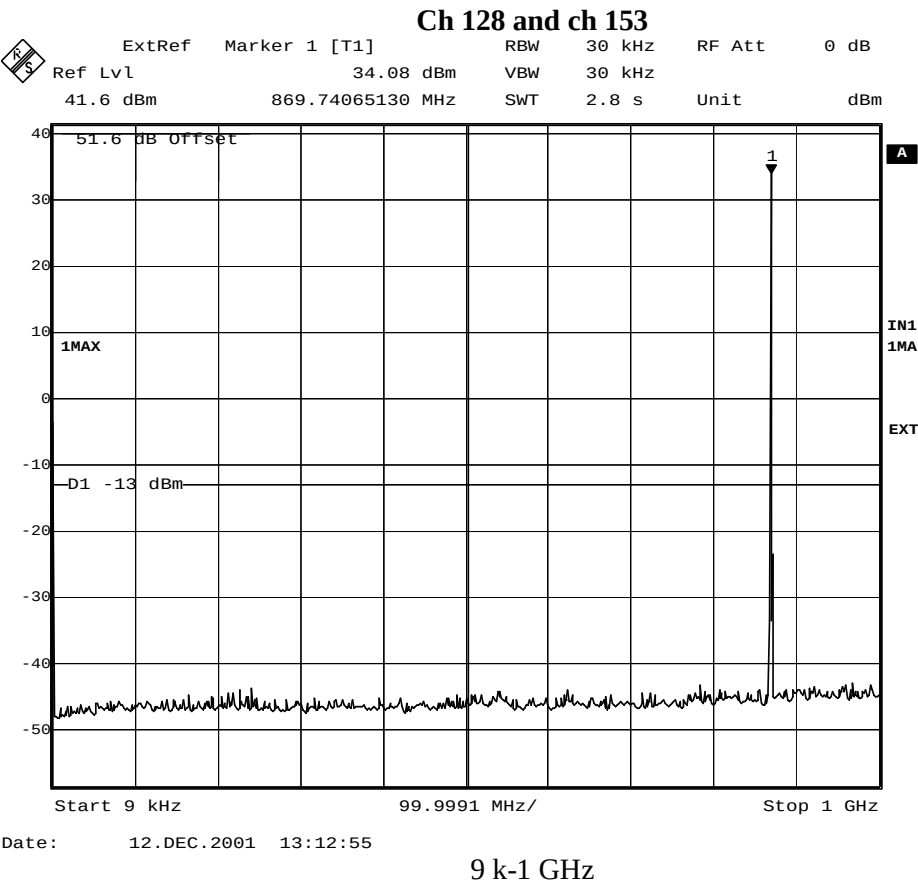
The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least $43 + 10 \log P$ dB.

Compliant?	Yes
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Sign:.....

REPORT

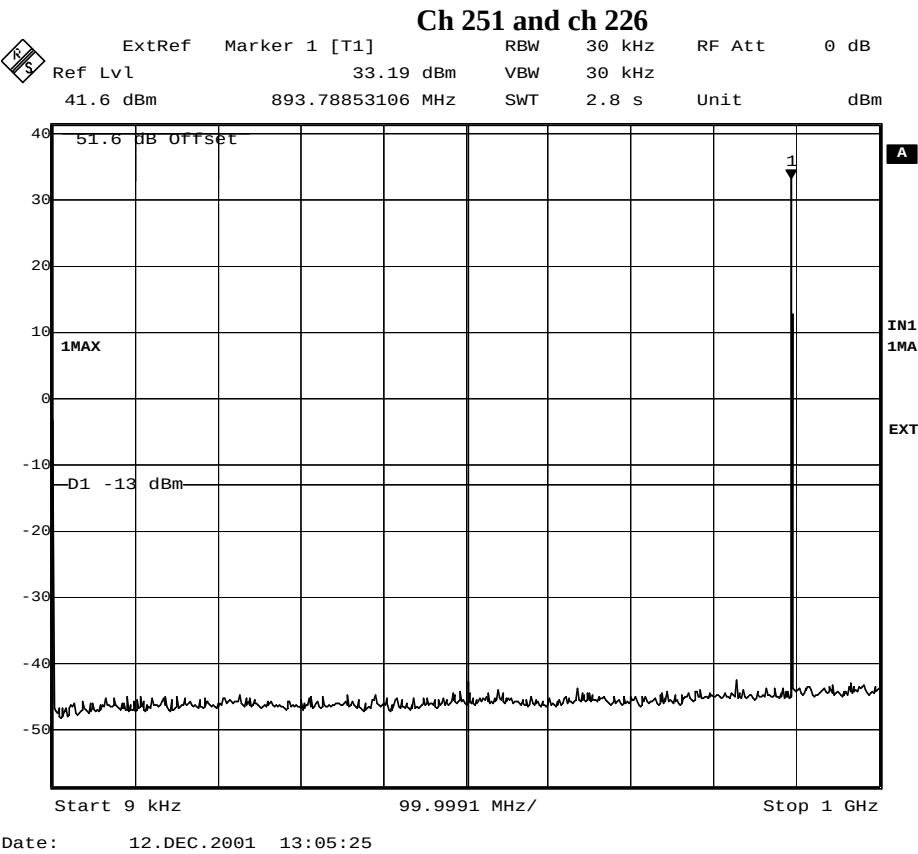
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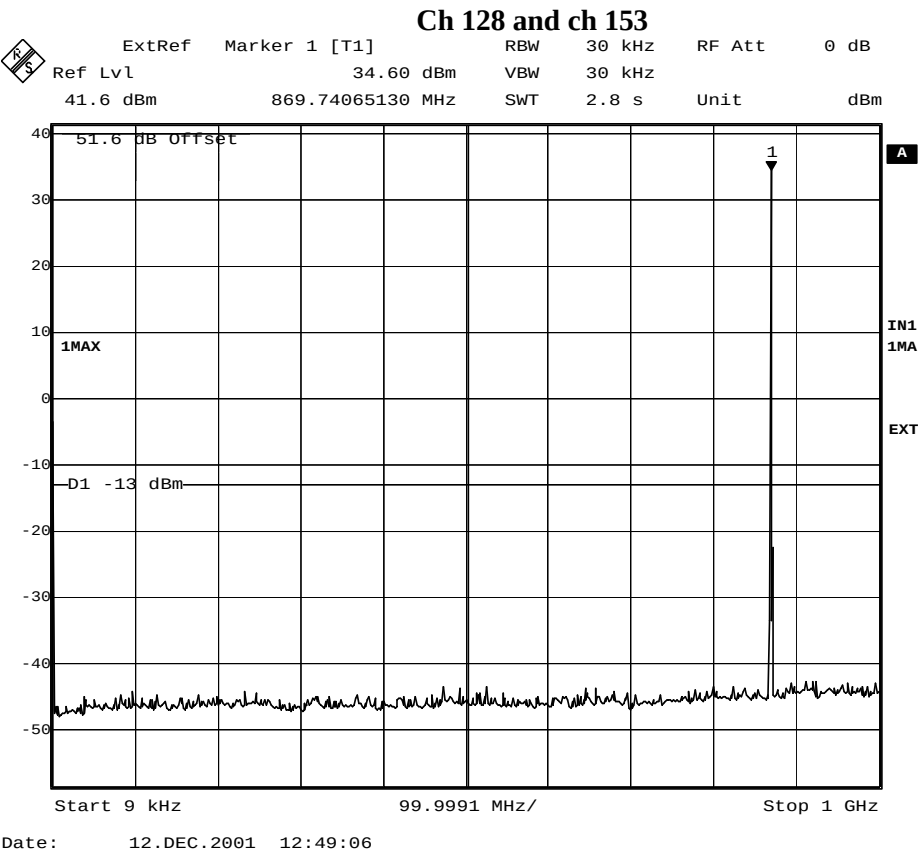


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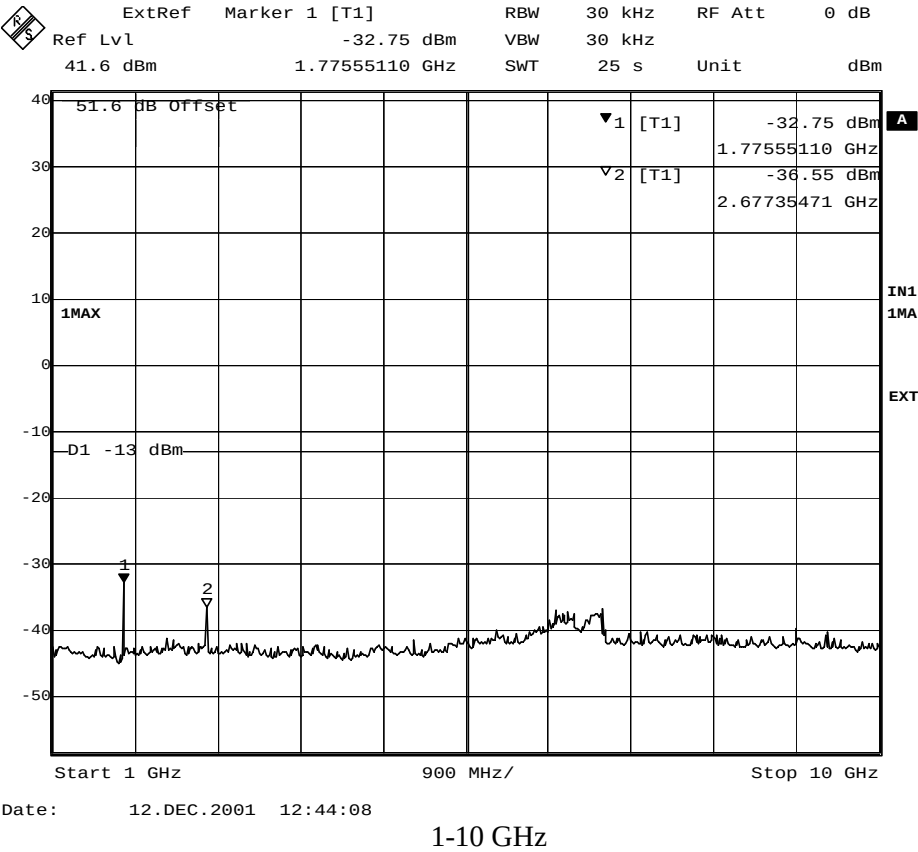
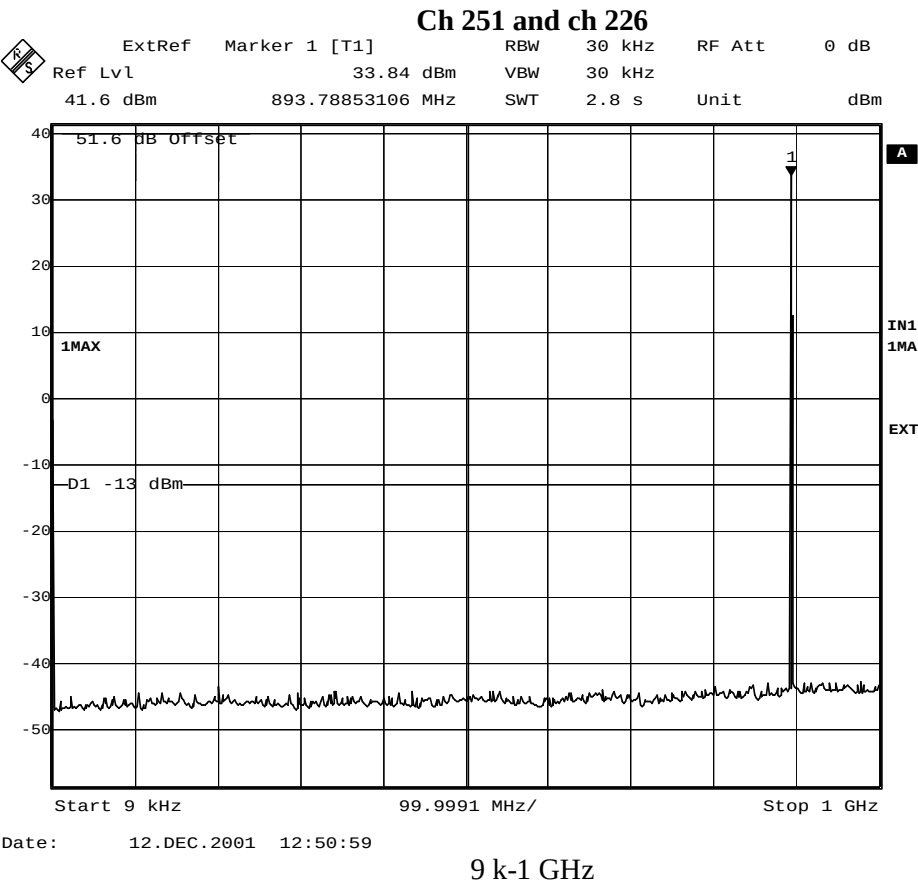
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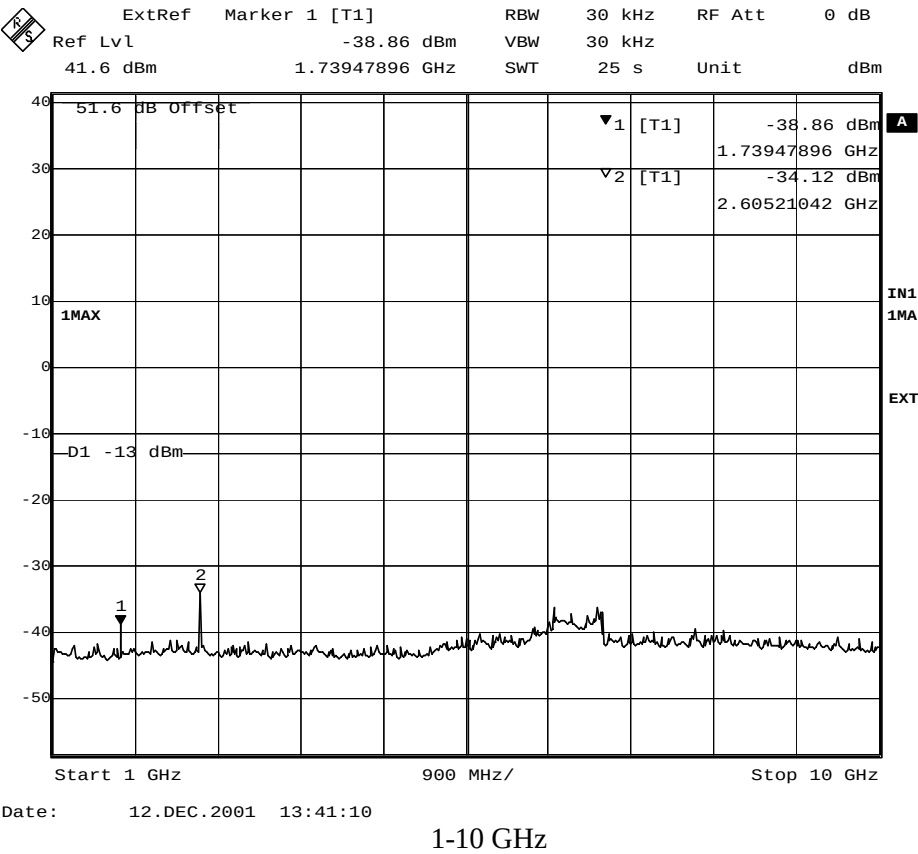
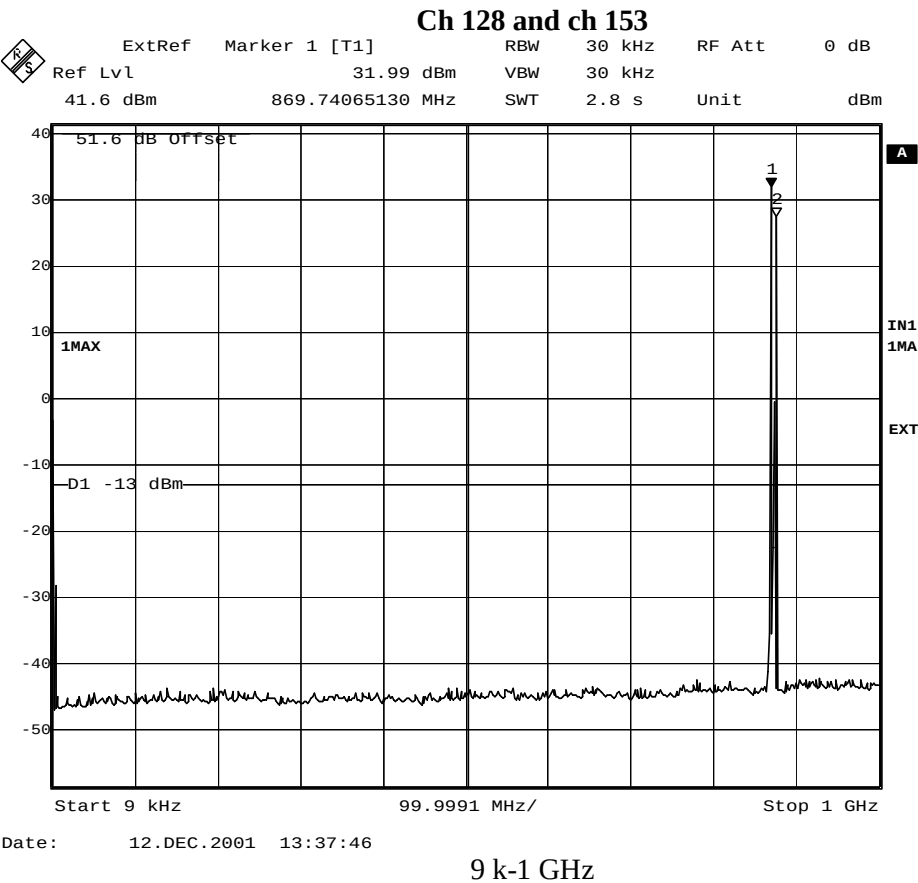


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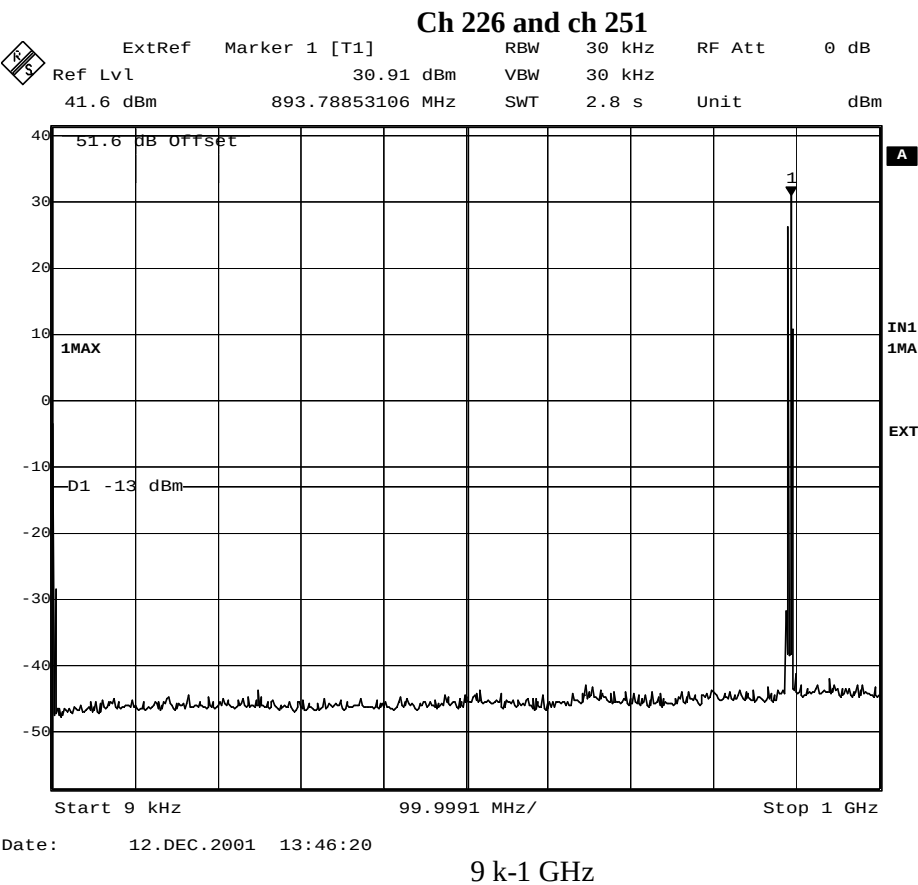
Datum/Date2002-01-08Beteckning/ReferenceF122706Sida/Page6 (8)Encl. 8Diagram 5

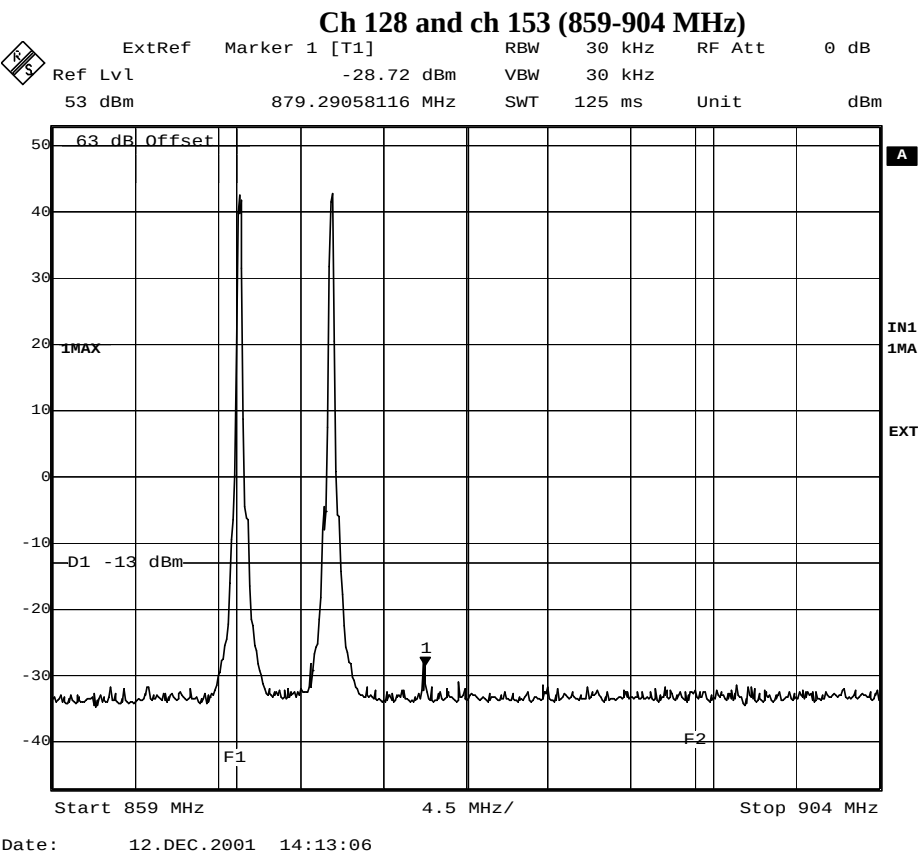


Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1





EUT Hardware configuration list RBS 2206 revision R3A

Unit	Product Number	Serial Number	Revision
Cabinet	SEB 112 1095/1	S763390594	R3A
ACCU-01	BMG 980 07/1	S792031844	R1A
FCU-01	BGM 136 1001/2	A082567933	R2C
DC-filter 01	KFE 101 11 45/1	TR21001584	R1A
CDU shelf	BFL 119 406/1	--	R3A
CDU-G 8	BFL 119 153/1	A40003HOJZ	R1B
CDU-G 8	BFL 119 153/1	A40003HOKA	R1B
CDU-G 8	BFL 119 153/1	A40003HOJW	R1B
ASU-01	KRY 112 54/1	A40003EFXA	R2A
Dummy	SXK 107 5031/1	--	R1B
CXU-10	KRY 101 1856/1	A40003FBJV	R3B
Dummy	SXK 107 5031/1	--	R1B
TRU shelf	BFL 119 407/1	--	R3A
dTRU-8	KRC 131 1005/1	AE50007HL9	R1A
Dummy	SXK 107 9163/1	--	R1B
dTRU-8	KRC 131 1005/1	AE50007E43	R1A
Dummy	SXK 107 9163/1	--	R1B
dTRU-8	KRC 131 1005/1	AE50007RC9	R1A
Dummy	SXK 107 9163/1	--	R1B
IDM 01	BMG 980 06/1	T671030312	R2A
PSU/ DXU shelf	BFL 119 408/1	--	R2A
PSU-AC	BML 231 202/1	A082399185	R2F
PSU-AC	BML 231 202/1	A082399295	R2F
PSU-AC	BML 231 202/1	A082399235	R2F
PSU-AC	BML 231 202/1	A082399174	R2F
DXU-21	BOE 602 14/1	A101567040	R4F
Dummy	SXK 107 5029/1	--	R1B
Dummy	SXK 107 5029/1	--	R1B
Dummy	SXK 107 5030/1	--	R1B
Dummy	SXK 107 5030/1	--	R1B
BFM	BFM 107 112/1	A533912993	R1A

Description of EUT

The EUT is a dTRU that can be installed in a 800 MHz GSM Base station configured with up to 6 double transceiver units that are designed to provide mobile telephone users with a connection to a mobile network or the PSTN.

REPORT

FCC ID: B5KPKRC1311005-1

Datum/Date
2002-01-08

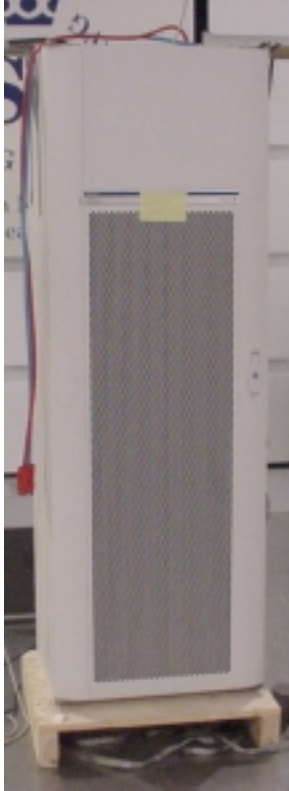
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Photos

RBS 2206 Cabinet R3A

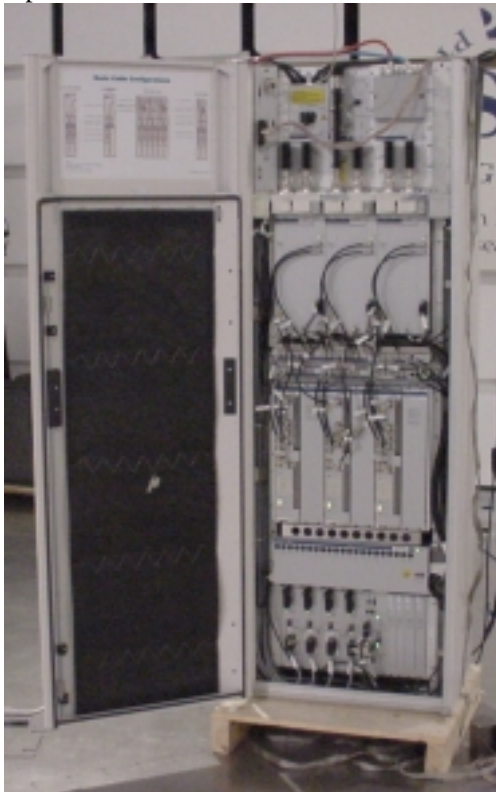
Front view



Rear view



Open door view



Sign:.....

REPORT

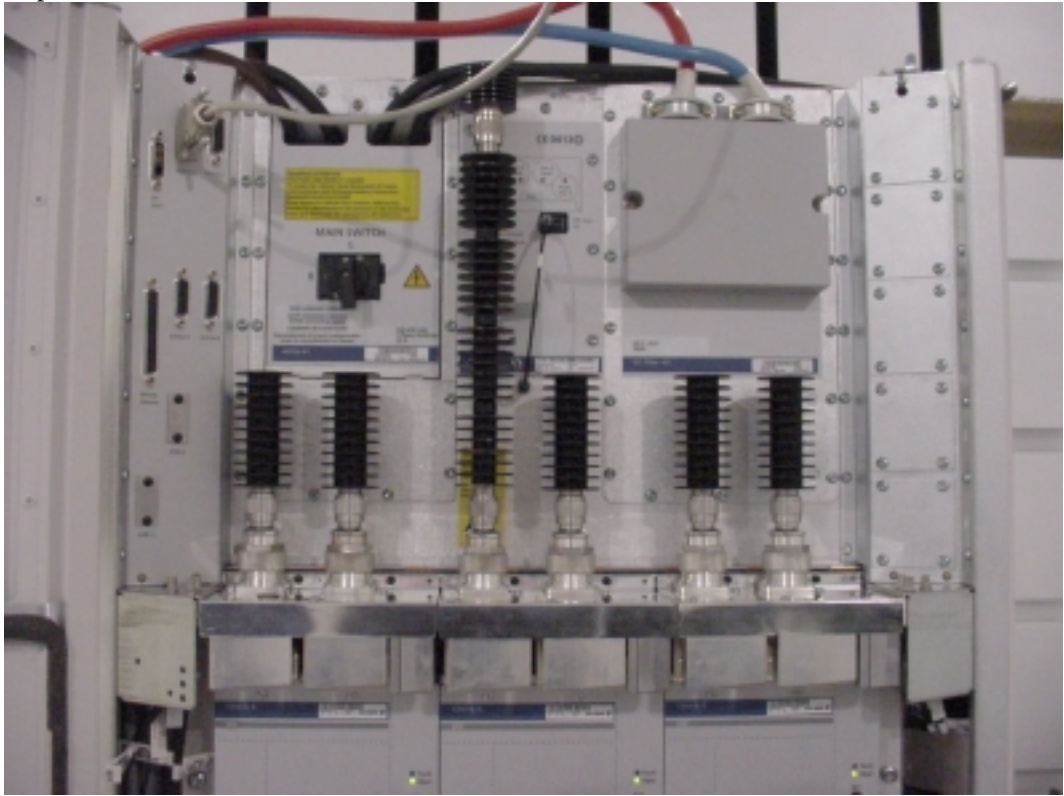
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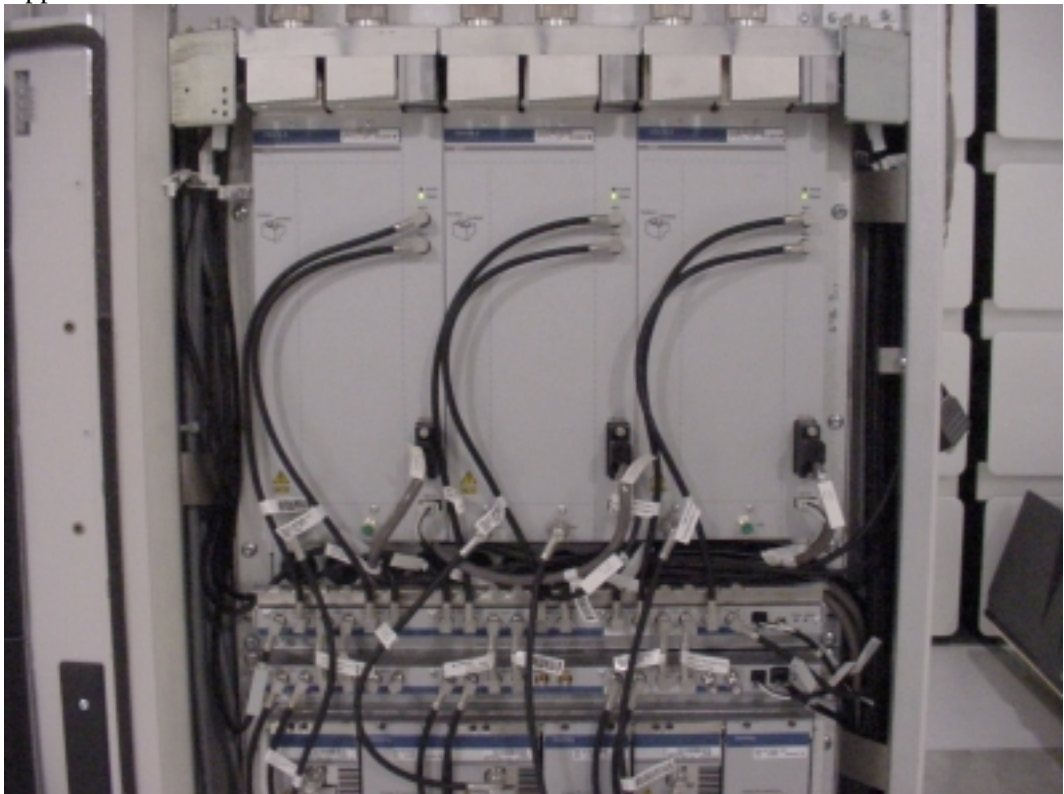
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Top shelf view



Upper middle shelf view



Sign:.....

REPORT

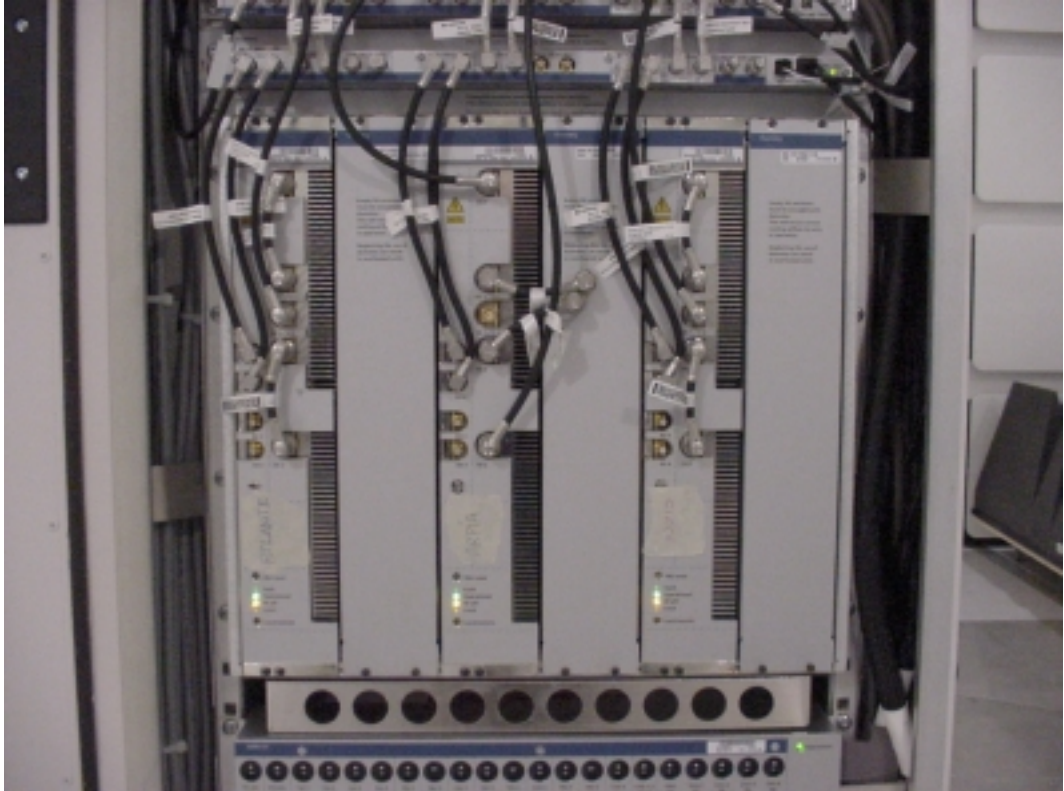
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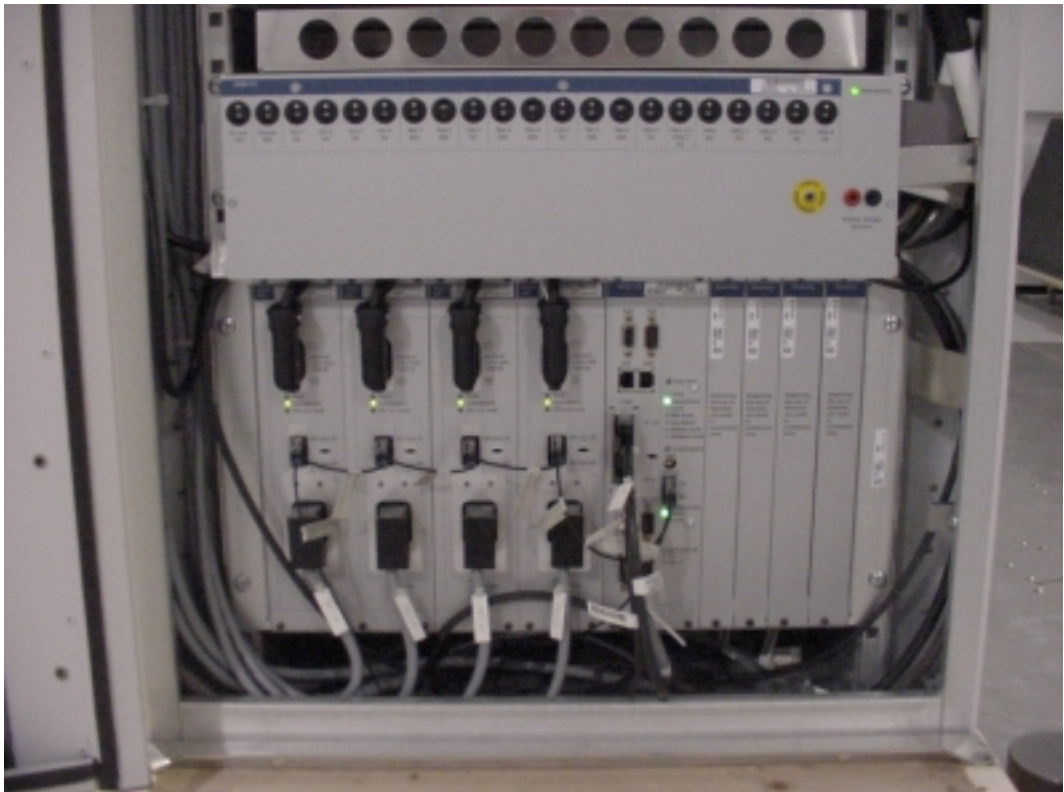
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Lower middle shelf view



Bottom shelf view



Sign:.....

REPORT

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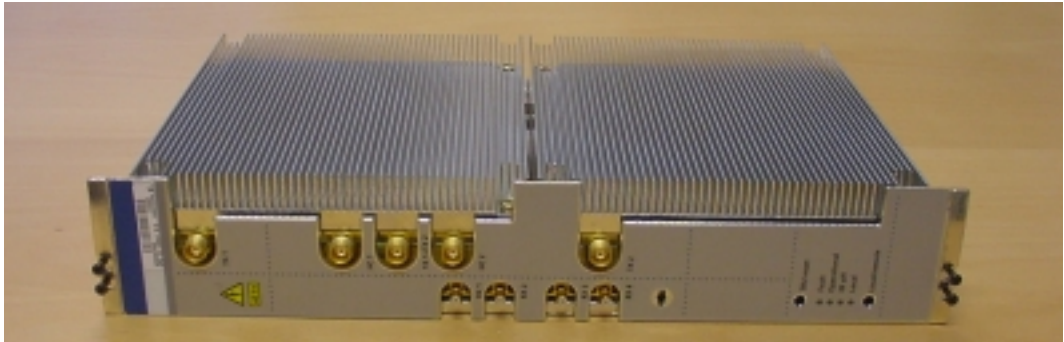
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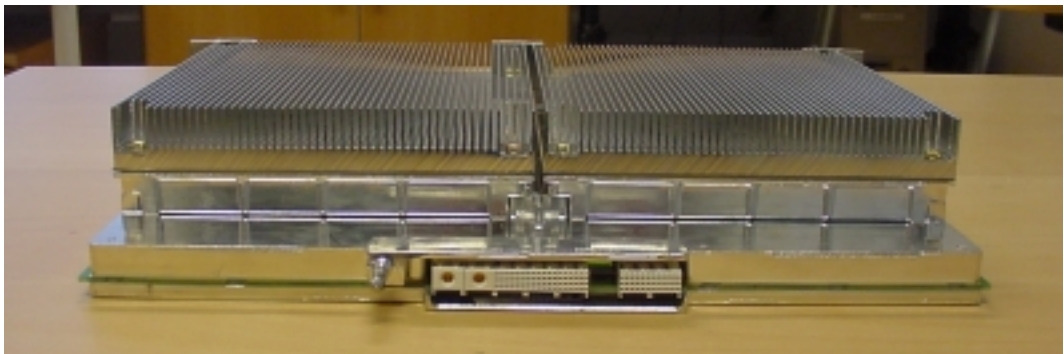
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Transceiver unit KRC 131 1005/1

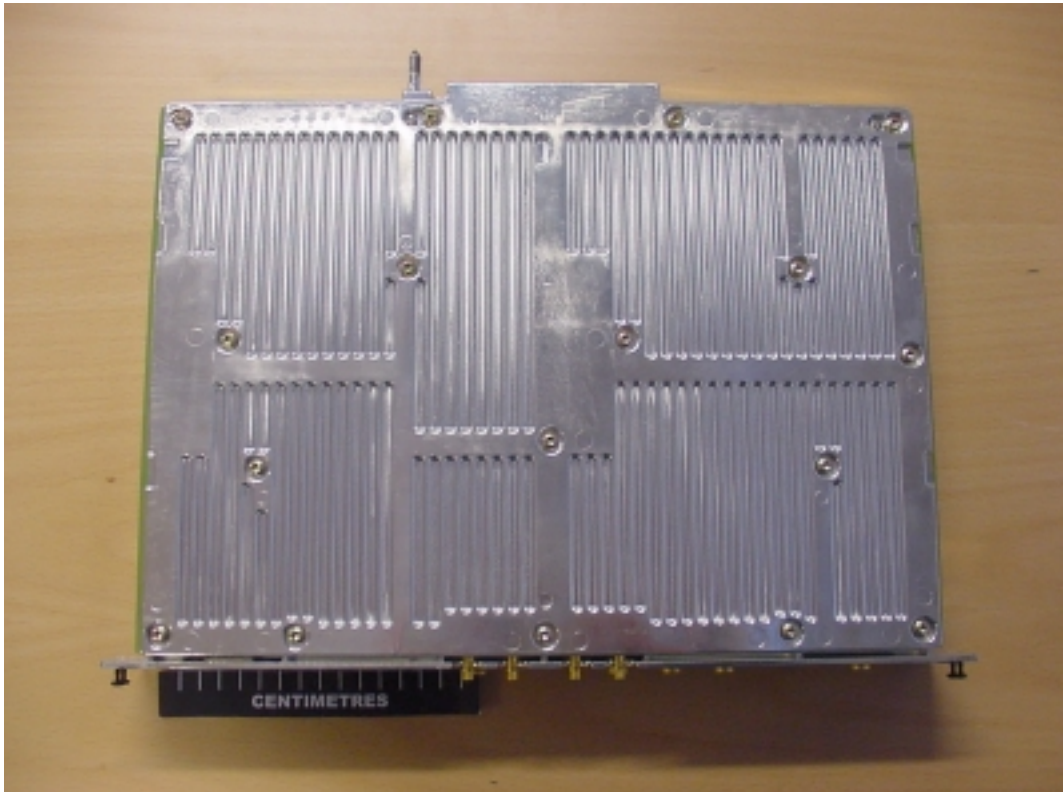
Front side



Rear side



Bottom side



Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

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2002-01-08

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Top



ID label



Sign:.....

REPORT

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FCC label



Main board



Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Datum/Date
2002-01-08

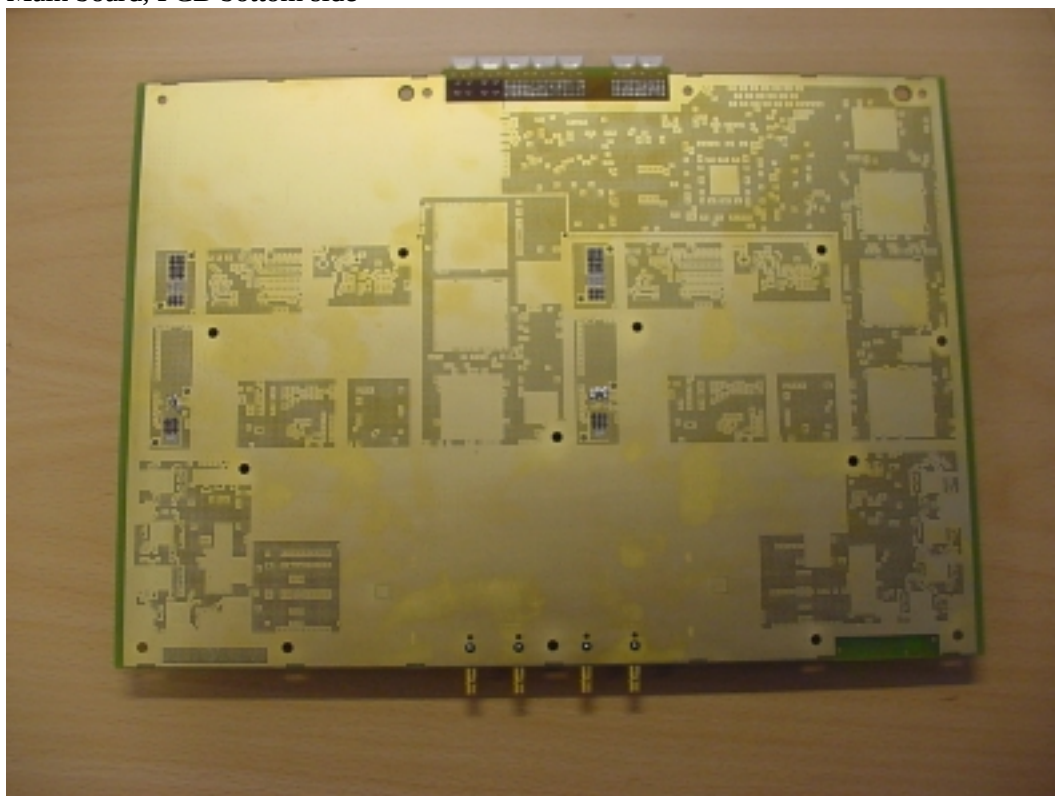
Betekning/Reference
F122706

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Main board, PCB component side



Main board, PCB bottom side



Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Datum/Date
2002-01-08

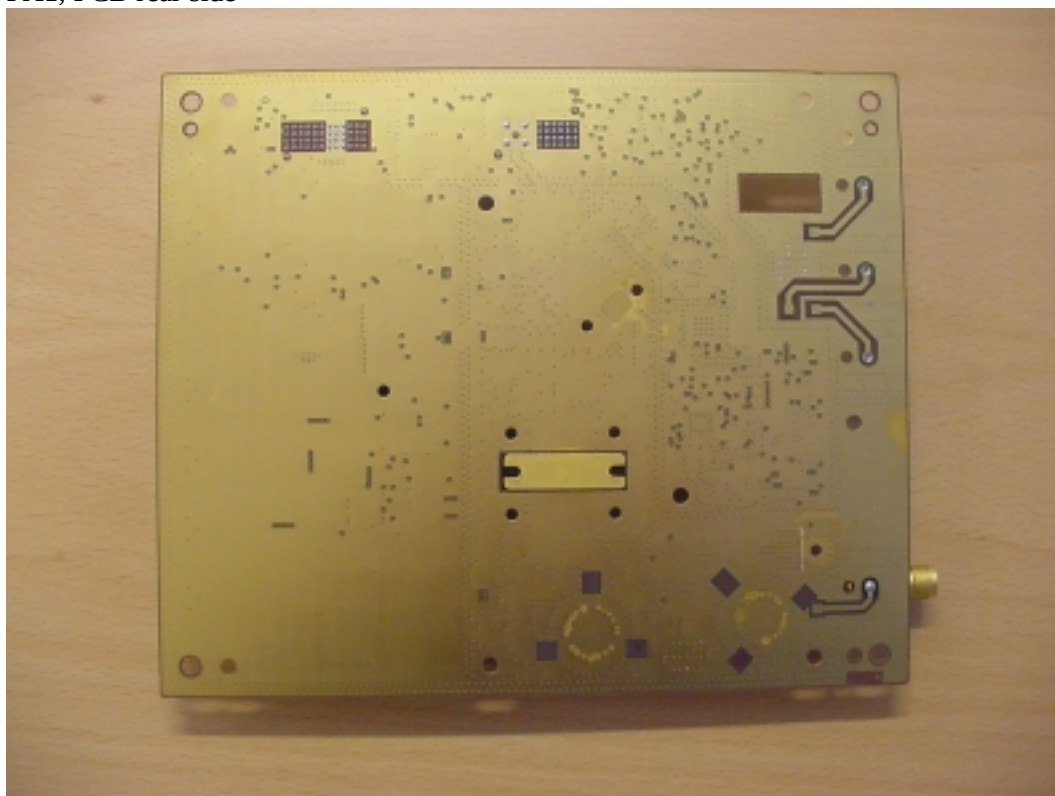
Beteckning/Reference
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PA1, PCB component side



PA1, PCB rear side



Sign:.....

REPORT

FCC ID: B5KPKRC1311005-1

Datum/Date
2002-01-08

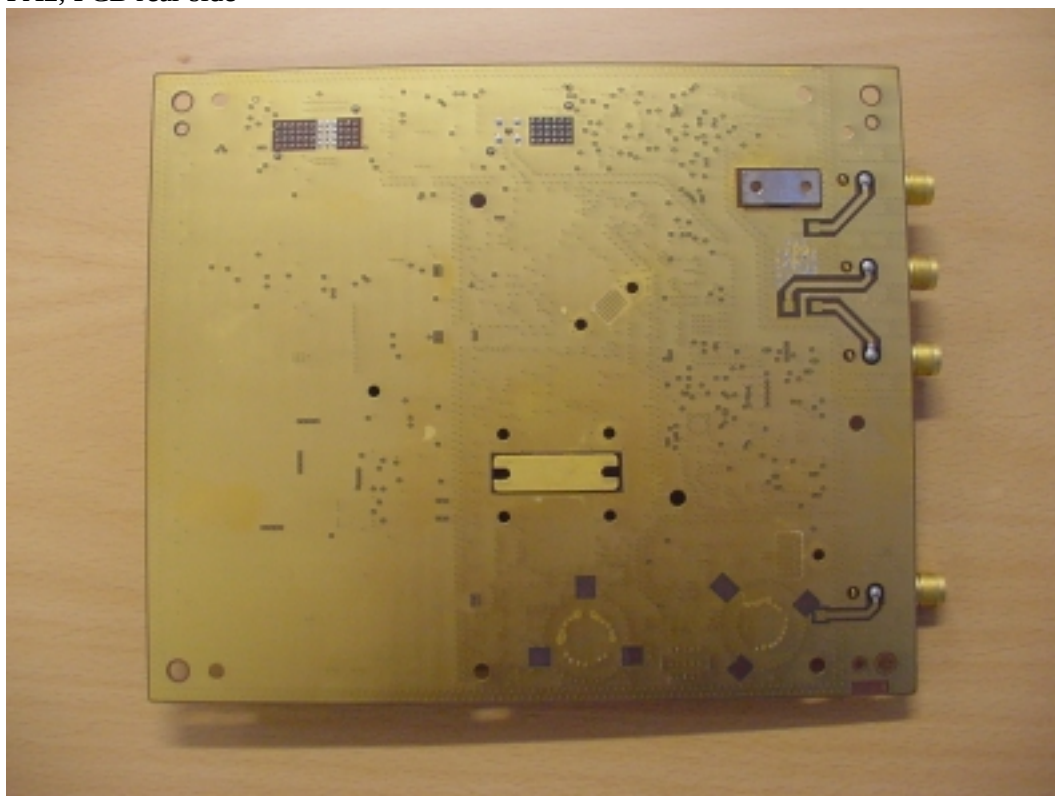
Beteckning/Reference
F122706

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PA2, PCB component side



PA2, PCB rear side



Sign:.....