

TEST RESULT SUMMARY

FCC Part 24

MANUFACTURER	ADC Inc.
NAME OF EQUIPMENT	Digivance® CXD 1900 MHz EFC Band
MODEL NUMBERS	DGVF-05000000XXCRN
MANUFACTURER'S ADDRESS	P.O. Box 1101 Minneapolis, MN 55440-1101
TEST REPORT NUMBER	WC506388.2 Rev A
TEST DATES	30 September 2005 (ADC) 14 December 2005 (TÜV)

According to testing performed at TÜV America Inc, the above-mentioned unit is in compliance with the electromagnetic compatibility (EMC) portions of the requirements defined in FCC Part 24.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

TÜV America Inc, as an independent testing laboratory, declares that the equipment tested as specified above conforms to the EMC requirements of FCC Part 24, Subpart E "Broadband PCS" Sections 24.232 "Power and antenna height limits", 24.235 "Frequency stability", 24.238 "Emission limitations for Broadband PCS equipment".

Date: 25 April 2006

Tested By

Technical Writer



Michael Schultz



Greg Jakubowski

Not Transferable

EMC Emission - TEST REPORT

Test Report File No. : **WC506388.2 Rev A** Date of issue: 23 February 2006

Model Nos. : **DGVF-05000000XXCRN**

Product Name : **Digivance® CXD 1900 MHz EFC Band**

Product Type : **Transports RF between a remote antenna and base station.**

Applicant : **ADC Inc.**

Manufacturer : **ADC Inc.**

License Holder : **ADC Inc.**

Address : **P.O. Box 1101
Minneapolis, MN 55440-1101**

Test Result : ☒ **Positive** ☐ **Negative**

Test Project Number :
Reference(s) : **WC506388.2 Rev A**

Total pages including Appendices : **150**

TÜV America Inc reports apply only to the specific samples tested under stated test conditions. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. TÜV America Inc shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV America Inc issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval. This report shall not be used by the client to claim product endorsement by NVLAP, NIST, or any agency of the US government.

TÜV America Inc and its professional staff hold government and professional organization certifications and are members of AAMI, ACIL, AEA, ANSI, IEEE, NVLAP, and VCCI

REVISION RECORD

REVISION	TOTAL NUMBER OF PAGES	DATE	DESCRIPTION
	158	16 February 2006	Initial Release
A	158	21 April 2006	Revisions include: ▪ Pages A2-A3, Updated EIRP Test Data

DIRECTORY

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Sign Explanations:

- ☐ - not applicable
- ☒ - applicable

EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to following regulations:

- ☐ - EN 50081-1 / 1991
- ☐ - EN 55011 / 1991

- ☐ - Group 1
- ☐ - Class A

- ☐ - Group 2
- ☐ - Class B

- ☐ - EN 55013 / 1990
- ☐ - EN 55014 / 1987

- ☐ - Household appliances and similar
- ☐ - Portable tools
- ☐ - Semiconductor devices

- ☐ - EN 55014 / A2:1990
- ☐ - EN 55014 / 1993

- ☐ - Household appliances and similar
- ☐ - Portable tools
- ☐ - Semiconductor devices

- ☐ - EN 55015 / 1987
- ☐ - EN 55015 / A1:1990
- ☐ - EN 55015 / 1993
- ☐ - EN 55022 / 1987
- ☐ - EN 55022 / 1991

- ☐ - Class A
- ☐ - Class A

- ☐ - Class B
- ☐ - Class B

- ☐ - BS
- ☐ - VCCI

- ☐ - Class A

- ☐ - Class B

- ☐ - FCC Part 15 Subpart B
- ☐ - FCC Part 15 Subpart C
- ☒ - FCC Part 24

- ☐ - Class A

- ☐ - Class B

- ☐ - CISPR 11 (1990)

- ☐ - Group 1
- ☐ - Class A

- ☐ - Group 2
- ☐ - Class B

- ☐ - CISPR 22 (1993)

- ☐ - Class A

- ☐ - Class B

- ☐ - IC RSS-Gen Issue 1
- ☐ - IC RSS-193 Issue 1

24.232 Power and antenna height limits

Test summary

The requirements are: ☒ - MET ☐ - NOT MET

Minimum margin of compliance is 12 dB at 1967.5 MHz and 1970.0 MHz (GSM Band E) and 1975 MHz (GSM Band F)

Test location

☐ - Wild River Lab Large Test Site (Open Area Test Site)

☐ - Wild River Lab Small Test Site (Open Area Test Site)

☒ - ADC facility

Test Distance

☐ - 3 meters

☐ - 10 meters

☒ - Conducted measurement

Test equipment (ADC)

Model Number	Manufacturer	Description	ADC Serial Number	Cal Due
49-30-33	Aeroflex	Attenuator	n/a	CNR
HP8563E	HP	Spectrum Analyzer	MC27690	6-22-06
EPM-441A	HP	Power Meter	MC27670	9-28-06

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test limit

100 watts or 50 dBm

Test Data

See page A2 – A3

24.235 Frequency stability

Test summary

The requirements are: ■ - MET □ - NOT MET

The fundamental emission stays within the authorized frequency block

Frequency measured over a temperature range of -30 to 50°C and an input voltage range of 102 to 138 VAC

Test location

□ - Wild River Lab Large Test Site (Open Area Test Site)

□ - Wild River Lab Small Test Site (Open Area Test Site)

■ - ADC facility

Test equipment (ADC)

Model Number	Manufacturer	Description	ADC Serial Number	Cal Due
26III	Fluke	Multimeter	MC22687	4-27-06
5347A	HP	Freq. Counter	MC27569	7-21-06
1520CT	Staco	Variable Auto Transformer	MC/44655	CNR
E4436B	Agilent	Signal Generator	963739	10-16-06

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test limit

The emission must stay within the authorized frequency block

Test data

See pages A4 – A6

24.238 Emission limitations for Broadband PCS equipment

Test summary

The requirements are: ■ - MET □ - NOT MET

Out of band emissions were less than -13dBm from the equation $(19\text{dBm} - [43 + 10\log(0.08\text{W})])$

Outside the emission bandwidth of the carrier, all emissions are attenuated at least 26 dB below the transmitter power

Test location

■ - Wild River Lab Large Test Site (Open Area Test Site)

□ - Wild River Lab Small Test Site (Open Area Test Site)

■ - ADC facility

Test equipment (ADC)

Model Number	Manufacturer	Description	ADC Serial Number	Cal Due
49-30-33	Aeroflex	Attenuator	n/a	CNR
HP8563E	HP	Spectrum Analyzer	MC27690	6-22-06
EPM-441A	HP	Power Meter	MC27670	9-28-06
26III	Fluke	Multimeter	MC22687	4-27-06
5347A	HP	Freq. Counter	MC27569	7-21-06
Thermotron	Thermotron	Temperature Chamber	MC18966	3-1-06
1520CT	Staco	Variable Auto Transformer	MC/44655	CNR
E4436B	Agilent	Signal Generator	963739	10-16-06
E4436B	Agilent	Signal Generator	MC50601	12-29-06

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test equipment (TUV)

TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
3203	EM-6917B	Electro-Metrics	Biconicalog Periodic	106	01-Apr-06
2075	3115	Electro-Mechanics (EMCO)	Ridge Guide Ant. 1-18 GHz	9001-3275	07-Dec-06
3961	ZHL-1042J	Mini-Circuits	Preamplifier	D120403-1	Code B
3958	SL18B4020	Phase One Microwave	Preamplifier 1 – 18 GHz	0002	Code B
2681	85650A	Hewlett-Packard	Quasi-Peak Adapter	2430A00562	03-Feb-06
8052	8566B	Hewlett-Packard	Spectrum Analyzer	2115A00853	24-Mar-06
8051	85662A	Hewlett-Packard	Analyzer Display	2112A02220	24-Mar-06
3367	E4440A	Agilent	Spectrum Analyzer	MY43362222	02-Sep-06
6717	3116	Electro-Mechanics (EMCO)	Ridge Guide Ant 18-40 GHz	2005	19-Sep-06

Cal Code B = Calibration verification performed internally. Cal Code Y = Calibration not required when used with other calibrated equipment.

Test limits

Out of band emissions:

Attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

$(19\text{dBm} - [43 + 10\log(0.08\text{W})]) = -13 \text{ dBm}$

Outside of the carrier emission bandwidth:

26 dB below the transmitter power

Test data

Occupied bandwidth, pages A7 – A16

Conducted Emissions, pages A17 – A53

Radiated emissions, pages A54 – A69

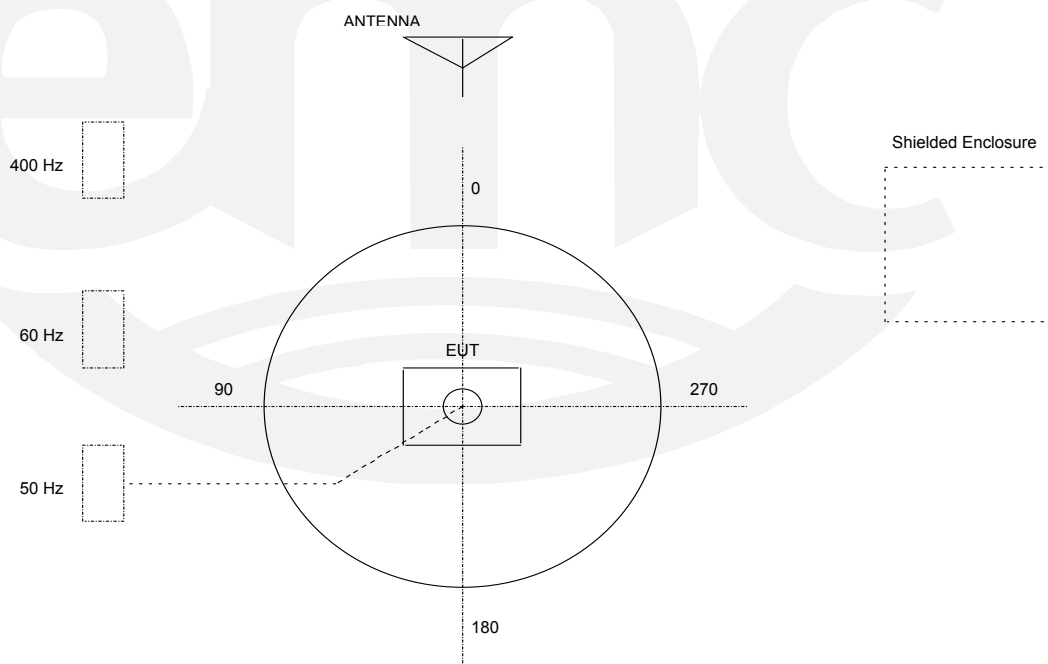
Inter-Modulation Test, pages A70 – A124

TEST SETUP FOR EMISSIONS TESTING

WILD RIVER LAB Large Test Site

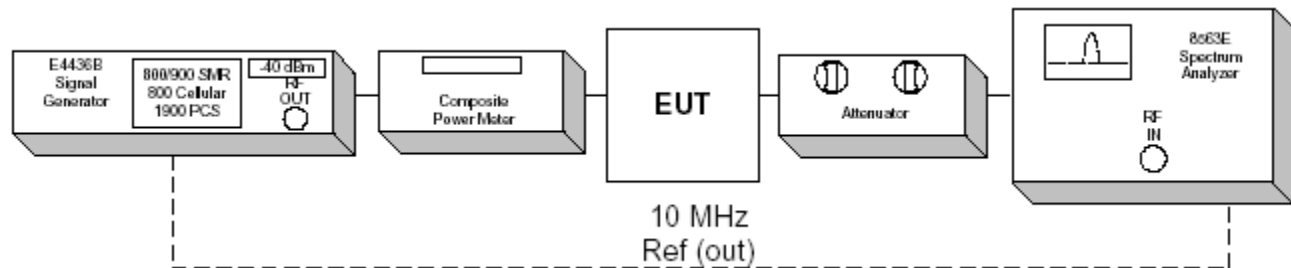
Notes:

1. Items shown in dotted lines are located on the floor below the test area. It is 5 meters vertically from the ground floor to the test area.
2. 50 Hz, 60 Hz, and 400 Hz are power panels for alternating current.
3. The antenna may be positioned horizontally 3, 10 or 30 meters from the center of the turntable.
4. The circle is a 6.7 meter diameter turntable.
5. A ground plane is in the plane of this sheet.
6. The test sample is shown in the azimuthal position representing zero degrees.



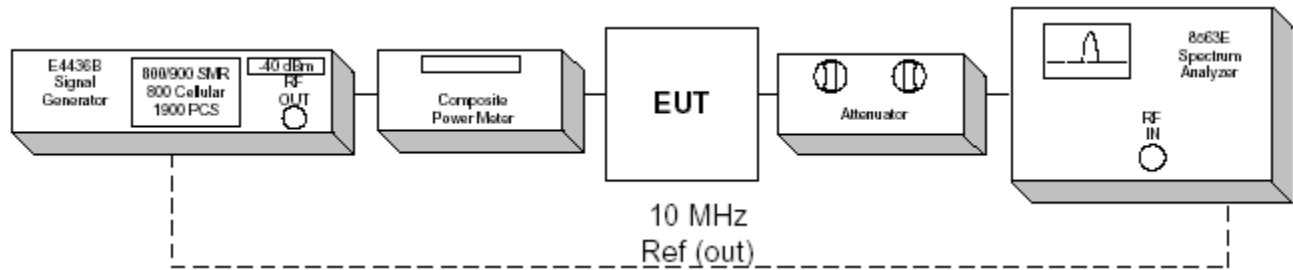
**Conducted Emission Limits Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000CRN**

Test Set-up



**Effective Isotropic Radiated Power Limit Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000CRN**

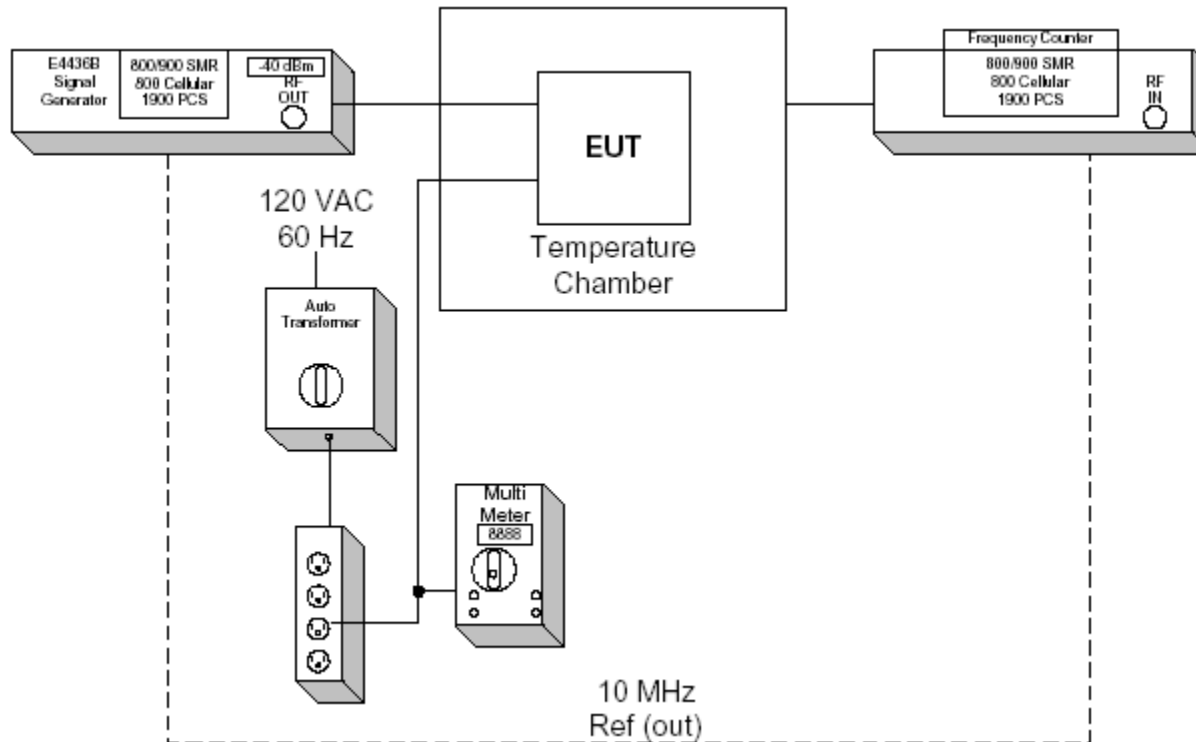
Test Set-up



Frequency Tolerance Test for ADC Inc. Digivance CXD Model Number DGVF-05000000XXCRN

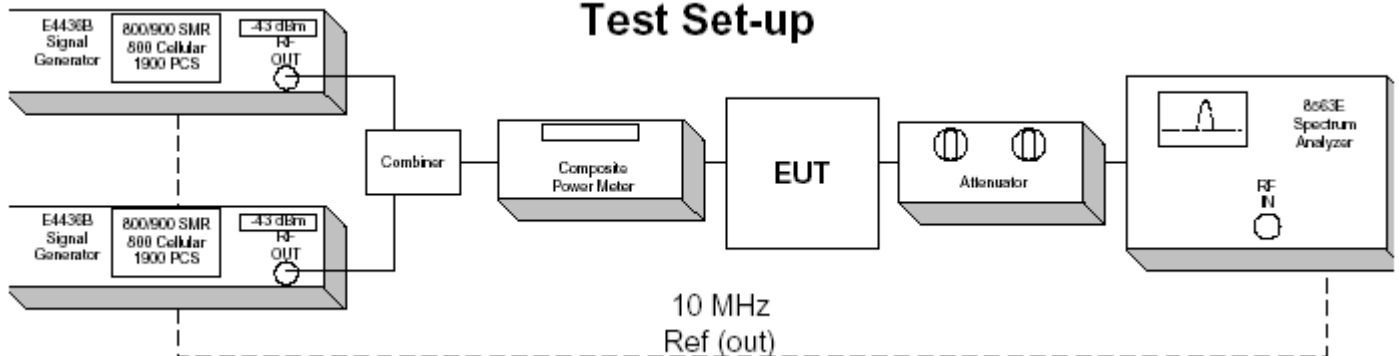
EUT Host is specified for indoor use only with temperature range of 0° to +50° C, and was tested with its range.
EUT Remote is specified with a temperature range of -30° to +50° C and was tested with its range.

Test Set-up



Inter-Modulation Test for ADC Inc. Digivance CXD Model Number DGVF-05000000XXCRN

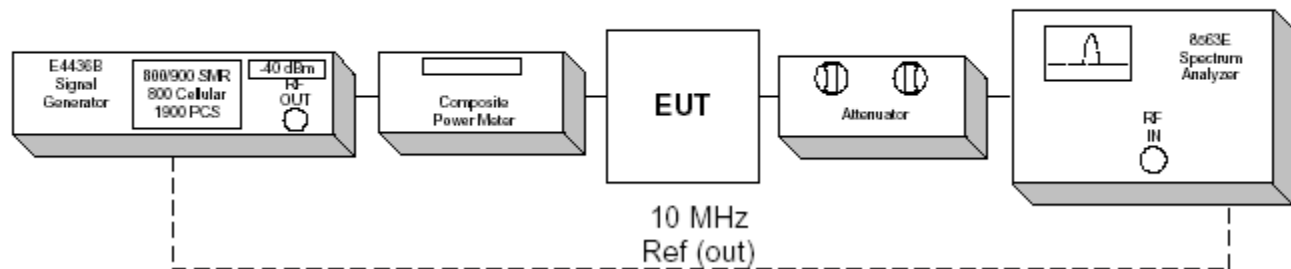
Test Set-up



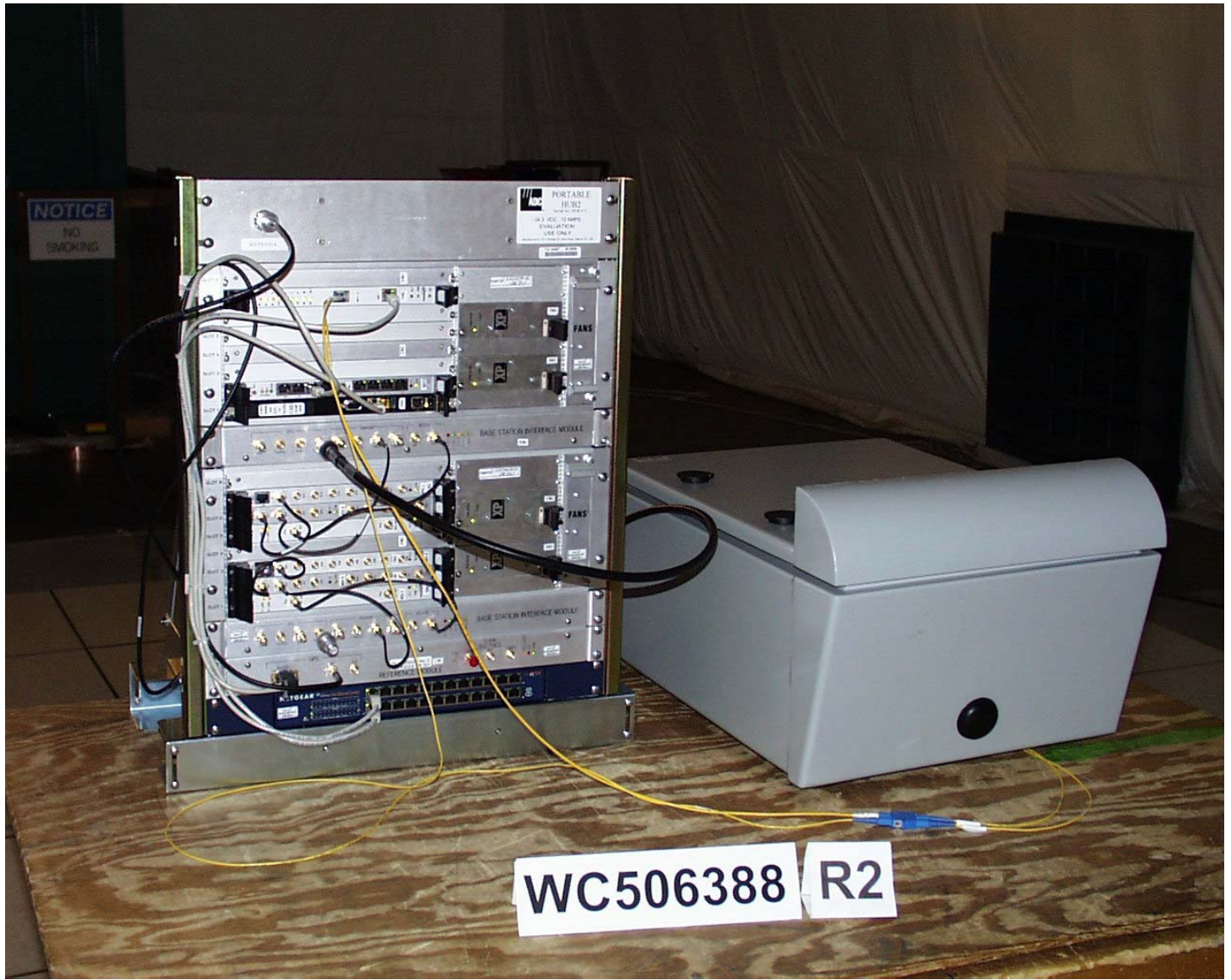
**Occupied Bandwidth Modulation Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000XXCRN**



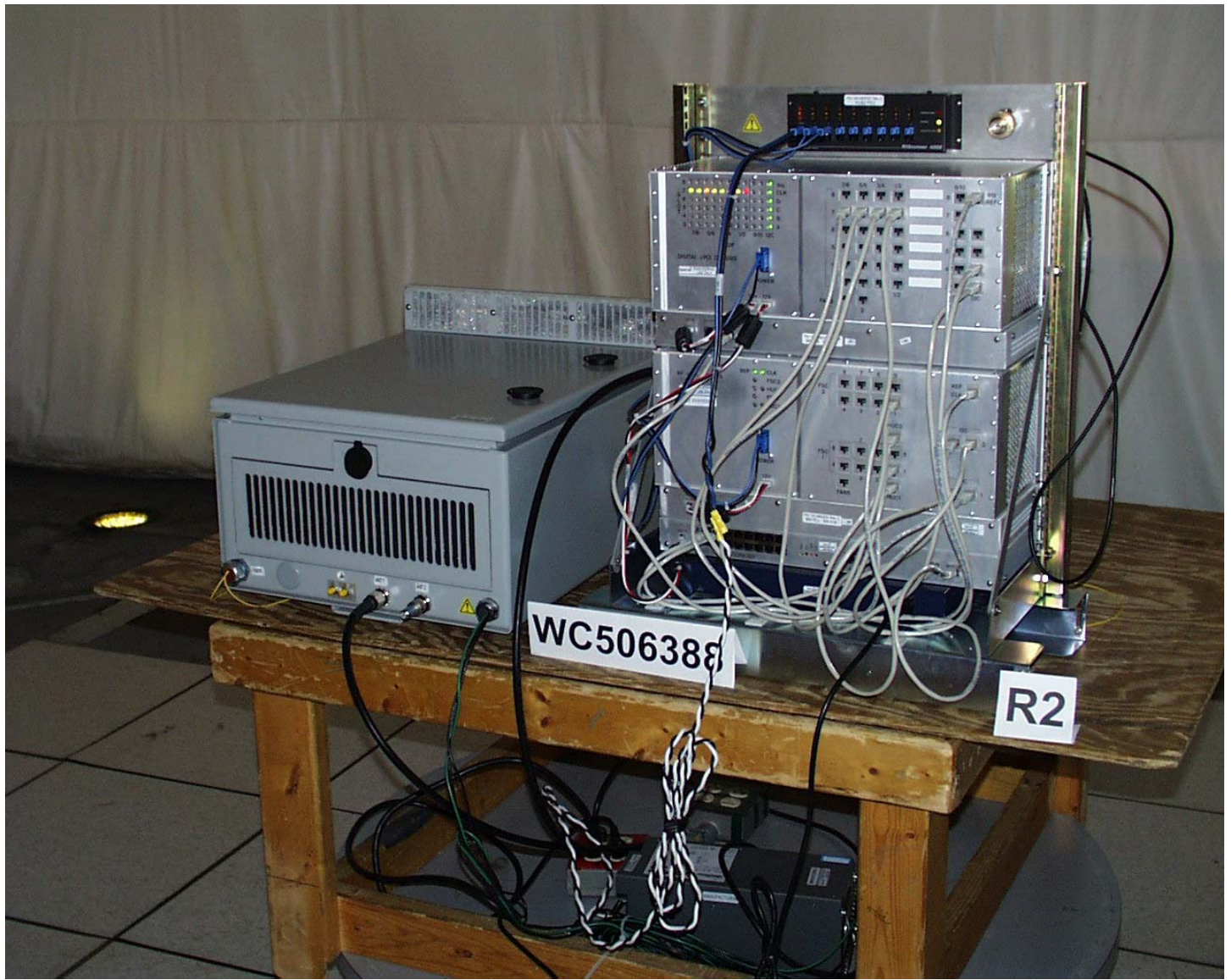
Test Set-up



Test setup photo, radiated emissions



Test setup photo, radiated emissions



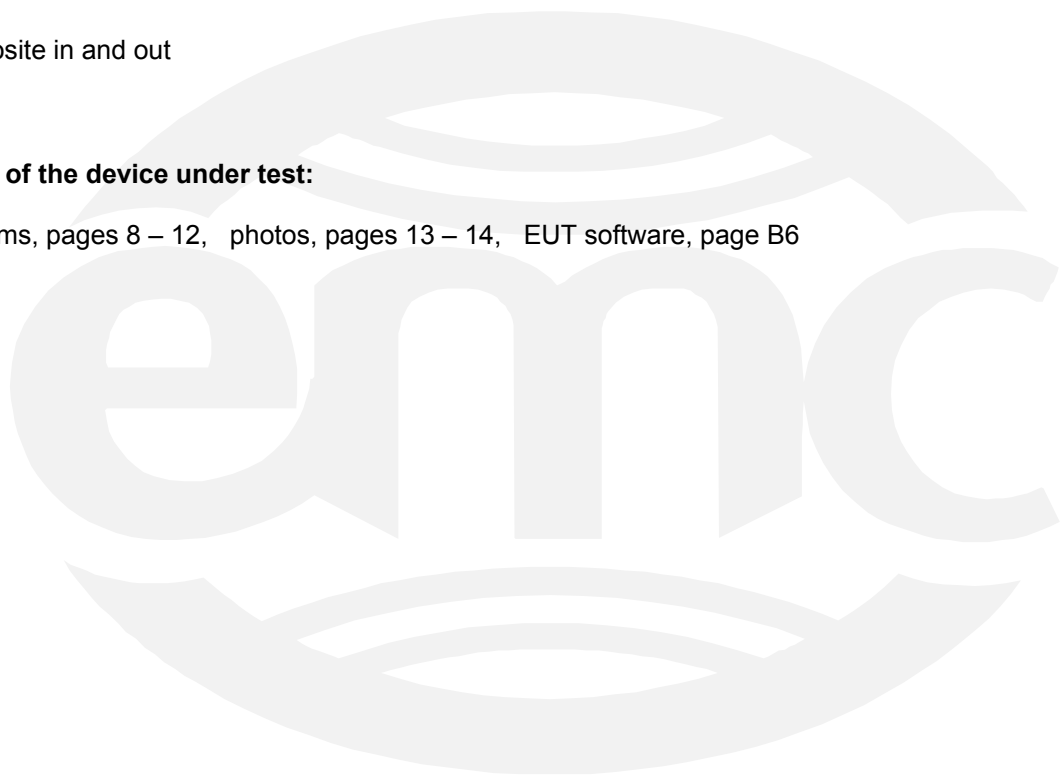
Test Operation Mode:

The device under test was operated under the following conditions during emissions testing:

- ☐ - Standby
- ☐ - Test program (H - Pattern)
- ☐ - Test program (color bar)
- ☐ - Test program (customer specific)
- ☐ - Practice operation
- ☒ - Max composite in and out

Configuration of the device under test:

- ☒ - See diagrams, pages 8 – 12, photos, pages 13 – 14, EUT software, page B6



DEVIATIONS FROM STANDARD:

None.

GENERAL REMARKS:

Modifications required to pass:

- ☒ None
- ☐ As indicated on the data sheet(s)

Test Specification Deviations: Additions to or Exclusions from:

- ☒ None
- ☐ As indicated in the Test Plan

SUMMARY:

The requirements according to the technical regulations are

- ☒ - met
- ☐ - **not** met.

The device under test does

- ☒ - fulfill the general approval requirements mentioned on page 3.
- ☐ - **not** fulfill the general approval requirements mentioned on page 3.

EUT Received Date: (TÜV)	<u>14 December 2005</u>
Condition of EUT:	<u>Normal</u>
Testing Start Date: (ADC)	<u>30 September 2005</u>
Testing End Date: (TÜV)	<u>14 December 2005</u>

- TÜV AMERICA INC -

Tested By:



Michael Schultz

Reviewed By:



Greg Jakubowski

Appendix A

Test data



Effective Isotropic Radiated Power Test for ADC Inc.

Digivance CXD

Model Number DGVF-05000000XXCRN

*Note: The EUT is a fixed repeater and not a base station.

This measurement was made as a direct conducted emission measurement. The output from the EUT antenna connector was connected to the power meter. The carrier output, below, was conducted using a single GSM, CDMA and CDMA2000 signal generator. The power meter level was offset to compensate for attenuators and cable loss between the EUT and the meter. The power meter head correction factors were calibrated and included in the measurements as well.

A signal was used at the low, mid and high parts of the selected band. The power meter level was offset by 32.2 dB to compensate for attenuators and cable loss between the EUT and the meter.

<u>GSM – 6.12 Watts</u>		<u>CDMA – 5.83 Watts</u>	
Band E	(1900 MHz)	Band E	(1900 MHz)
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
1965.0 MHz	<u>37.13</u> dBm	1965.0 MHz	<u>37.36</u> dBm
1967.5 MHz	<u>37.87</u> dBm	1967.5 MHz	<u>37.66</u> dBm
1970.0 MHz	<u>37.87</u> dBm	1970.0 MHz	<u>36.86</u> dBm
Band F	(1900 MHz)	Band F	(1900 MHz)
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
1970.0 MHz	<u>36.97</u> dBm	1970.0 MHz	<u>36.70</u> dBm
1972.5 MHz	<u>37.59</u> dBm	1972.5 MHz	<u>37.36</u> dBm
1975.0 MHz	<u>37.87</u> dBm	1975.0 MHz	<u>37.36</u> dBm
Band C	(1900 MHz)	Band C	(1900 MHz)
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
1975.0 MHz	<u>36.63</u> dBm	1975.0 MHz	<u>36.23</u> dBm
1982.5 MHz	<u>36.41</u> dBm	1982.5 MHz	<u>37.10</u> dBm
1990.0 MHz	<u>36.57</u> dBm	1990.0 MHz	<u>36.86</u> dBm

CDMA2000 – 6.11 Watts

Band A	(1900 MHz)
Carrier Frequency	Carrier Output
1930.0 MHz	<u>36.53</u> dBm
1937.5 MHz	<u>37.86</u> dBm
1945.0 MHz	<u>37.70</u> dBm

Band D	(1900 MHz)
Carrier Frequency	Carrier Output
1945.0 MHz	<u>37.36</u> dBm
1947.5 MHz	<u>37.70</u> dBm
1950.0 MHz	<u>37.50</u> dBm

Band B	(1900 MHz)
Carrier Frequency	Carrier Output
1950.0 MHz	<u>37.06</u> dBm
1957.5 MHz	<u>37.20</u> dBm
1965.0 MHz	<u>37.36</u> dBm

**Frequency Tolerance Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000XXCRN**

EUT E Band (1900 MHz)

Input Voltage	Carrier Frequency	Measured Frequency	Meets Requirements?
102 VAC	1965.000 MHz	1965.000 MHz	Yes
120 VAC	1965.000 MHz	1965.000 MHz	Yes
138 VAC	1965.000 MHz	1965.000 MHz	Yes
102 VAC	1967.500 MHz	1967.500 MHz	Yes
120 VAC	1967.500 MHz	1967.500 MHz	Yes
138 VAC	1967.500 MHz	1967.500 MHz	Yes
102 VAC	1970.000 MHz	1970.000 MHz	Yes
120 VAC	1970.000 MHz	1970.000 MHz	Yes
138 VAC	1970.000 MHz	1970.000 MHz	Yes
Temperature	Carrier Frequency	Measured Frequency	Meets Requirements?
-30 Deg. C	1965.000 MHz	1965.000 MHz	Yes
-20 Deg. C	1965.000 MHz	1965.000 MHz	Yes
-10 Deg. C	1965.000 MHz	1965.000 MHz	Yes
0 Deg. C	1965.000 MHz	1965.000 MHz	Yes
10 Deg. C	1965.000 MHz	1965.000 MHz	Yes
20 Deg. C	1965.000 MHz	1965.000 MHz	Yes
30 Deg. C	1965.000 MHz	1965.000 MHz	Yes
40 Deg. C	1965.000 MHz	1965.000 MHz	Yes
50 Deg. C	1965.000 MHz	1965.000 MHz	Yes
-30 Deg. C	1967.500 MHz	1967.500 MHz	Yes
-20 Deg. C	1967.500 MHz	1967.500 MHz	Yes
-10 Deg. C	1967.500 MHz	1967.500 MHz	Yes
0 Deg. C	1967.500 MHz	1967.500 MHz	Yes
10 Deg. C	1967.500 MHz	1967.500 MHz	Yes
20 Deg. C	1967.500 MHz	1967.500 MHz	Yes
30 Deg. C	1967.500 MHz	1967.500 MHz	Yes
40 Deg. C	1967.500 MHz	1967.500 MHz	Yes
50 Deg. C	1967.500 MHz	1967.500 MHz	Yes
-30 Deg. C	1970.000 MHz	1970.000 MHz	Yes
-20 Deg. C	1970.000 MHz	1970.000 MHz	Yes
-10 Deg. C	1970.000 MHz	1970.000 MHz	Yes
0 Deg. C	1970.000 MHz	1970.000 MHz	Yes
10 Deg. C	1970.000 MHz	1970.000 MHz	Yes
20 Deg. C	1970.000 MHz	1970.000 MHz	Yes
30 Deg. C	1970.000 MHz	1970.000 MHz	Yes
40 Deg. C	1970.000 MHz	1970.000 MHz	Yes
50 Deg. C	1970.000 MHz	1970.000 MHz	Yes

**Frequency Tolerance Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000XXCRN**

EUT F Band (1900 MHz)

Input Voltage	Carrier Frequency	Measured Frequency	Meets Requirements?
102 VAC	1970.000 MHz	1970.000 MHz	Yes
120 VAC	1970.000 MHz	1970.000 MHz	Yes
138 VAC	1970.000 MHz	1970.000 MHz	Yes
102 VAC	1972.500 MHz	1972.500 MHz	Yes
120 VAC	1972.500 MHz	1972.500 MHz	Yes
138 VAC	1972.500 MHz	1972.500 MHz	Yes
102 VAC	1975.000 MHz	1975.000 MHz	Yes
120 VAC	1975.000 MHz	1975.000 MHz	Yes
138 VAC	1975.000 MHz	1975.000 MHz	Yes
Temperature	Carrier Frequency	Measured Frequency	Meets Requirements?
-30 Deg. C	1970.000 MHz	1970.000 MHz	Yes
-20 Deg. C	1970.000 MHz	1970.000 MHz	Yes
-10 Deg. C	1970.000 MHz	1970.000 MHz	Yes
0 Deg. C	1970.000 MHz	1970.000 MHz	Yes
10 Deg. C	1970.000 MHz	1970.000 MHz	Yes
20 Deg. C	1970.000 MHz	1970.000 MHz	Yes
30 Deg. C	1970.000 MHz	1970.000 MHz	Yes
40 Deg. C	1970.000 MHz	1970.000 MHz	Yes
50 Deg. C	1970.000 MHz	1970.000 MHz	Yes
-30 Deg. C	1972.500 MHz	1972.500 MHz	Yes
-20 Deg. C	1972.500 MHz	1972.500 MHz	Yes
-10 Deg. C	1972.500 MHz	1972.500 MHz	Yes
0 Deg. C	1972.500 MHz	1972.500 MHz	Yes
10 Deg. C	1972.500 MHz	1972.500 MHz	Yes
20 Deg. C	1972.500 MHz	1972.500 MHz	Yes
30 Deg. C	1972.500 MHz	1972.500 MHz	Yes
40 Deg. C	1972.500 MHz	1972.500 MHz	Yes
50 Deg. C	1972.500 MHz	1972.500 MHz	Yes
-30 Deg. C	1975.000 MHz	1975.000 MHz	Yes
-20 Deg. C	1975.000 MHz	1975.000 MHz	Yes
-10 Deg. C	1975.000 MHz	1975.000 MHz	Yes
0 Deg. C	1975.000 MHz	1975.000 MHz	Yes
10 Deg. C	1975.000 MHz	1975.000 MHz	Yes
20 Deg. C	1975.000 MHz	1975.000 MHz	Yes
30 Deg. C	1975.000 MHz	1975.000 MHz	Yes
40 Deg. C	1975.000 MHz	1975.000 MHz	Yes
50 Deg. C	1975.000 MHz	1975.000 MHz	Yes

Frequency Tolerance Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000XXCRN

EUT C Band (1900 MHz)

Input Voltage	Carrier Frequency	Measured Frequency	Meets Requirements?
102 VAC	1975.000 MHz	1975.000 MHz	Yes
120 VAC	1975.000 MHz	1975.000 MHz	Yes
138 VAC	1975.000 MHz	1975.000 MHz	Yes
102 VAC	1982.500 MHz	1982.500 MHz	Yes
120 VAC	1982.500 MHz	1982.500 MHz	Yes
138 VAC	1982.500 MHz	1982.500 MHz	Yes
102 VAC	1990.000 MHz	1990.000 MHz	Yes
120 VAC	1990.000 MHz	1990.000 MHz	Yes
138 VAC	1990.000 MHz	1990.000 MHz	Yes
Temperature	Carrier Frequency	Measured Frequency	Meets Requirements?
-30 Deg. C	1975.000 MHz	1975.000 MHz	Yes
-20 Deg. C	1975.000 MHz	1975.000 MHz	Yes
-10 Deg. C	1975.000 MHz	1975.000 MHz	Yes
0 Deg. C	1975.000 MHz	1975.000 MHz	Yes
10 Deg. C	1975.000 MHz	1975.000 MHz	Yes
20 Deg. C	1975.000 MHz	1975.000 MHz	Yes
30 Deg. C	1975.000 MHz	1975.000 MHz	Yes
40 Deg. C	1975.000 MHz	1975.000 MHz	Yes
50 Deg. C	1975.000 MHz	1975.000 MHz	Yes
-30 Deg. C	1982.500 MHz	1982.500 MHz	Yes
-20 Deg. C	1982.500 MHz	1982.500 MHz	Yes
-10 Deg. C	1982.500 MHz	1982.500 MHz	Yes
0 Deg. C	1982.500 MHz	1982.500 MHz	Yes
10 Deg. C	1982.500 MHz	1982.500 MHz	Yes
20 Deg. C	1982.500 MHz	1982.500 MHz	Yes
30 Deg. C	1982.500 MHz	1982.500 MHz	Yes
40 Deg. C	1982.500 MHz	1982.500 MHz	Yes
50 Deg. C	1982.500 MHz	1982.500 MHz	Yes
-30 Deg. C	1990.000 MHz	1990.000 MHz	Yes
-20 Deg. C	1990.000 MHz	1990.000 MHz	Yes
-10 Deg. C	1990.000 MHz	1990.000 MHz	Yes
0 Deg. C	1990.000 MHz	1990.000 MHz	Yes
10 Deg. C	1990.000 MHz	1990.000 MHz	Yes
20 Deg. C	1990.000 MHz	1990.000 MHz	Yes
30 Deg. C	1990.000 MHz	1990.000 MHz	Yes
40 Deg. C	1990.000 MHz	1990.000 MHz	Yes
50 Deg. C	1990.000 MHz	1990.000 MHz	Yes

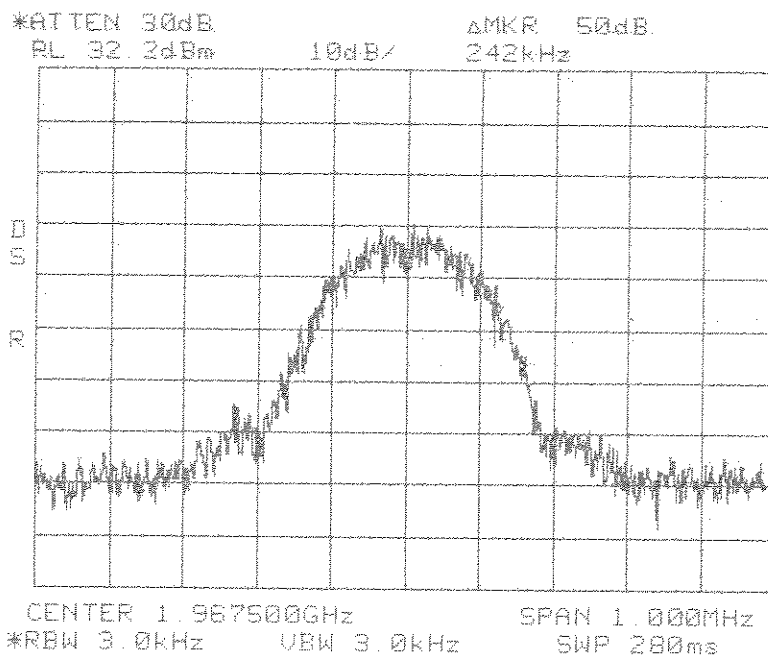
Occupied Bandwidth Modulation Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000XXCRN

An input/output Occupied Bandwidth test was done with modulation types: GSM, CDMA, and CDMA2000. The purpose was to determine the amount of distortion added to different types of modulation schemes by the EUT. The following plots show input signals vs. output signals.

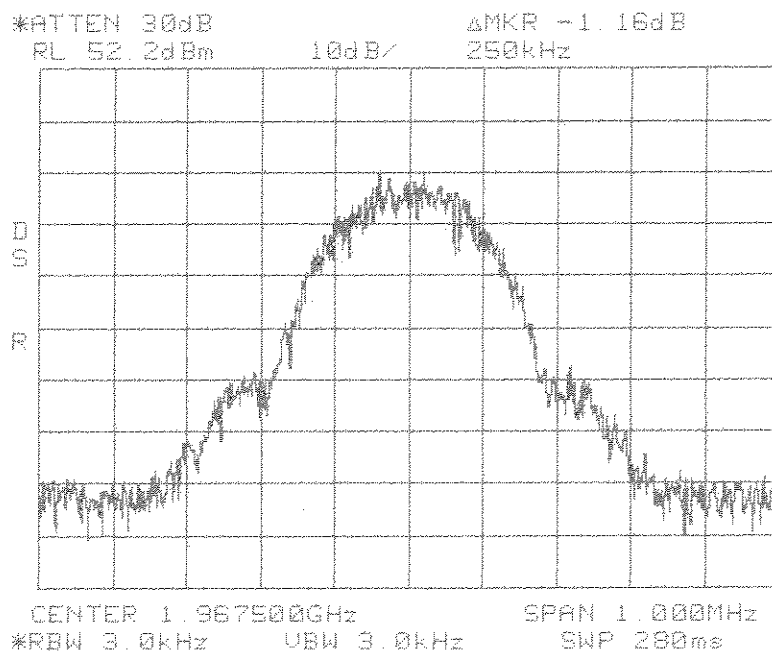
Results:

Pass (see plots)

Center: 1967.5 MHz
Span: 1 MHz
RBW/VBW: 3 kHz / 3 kHz



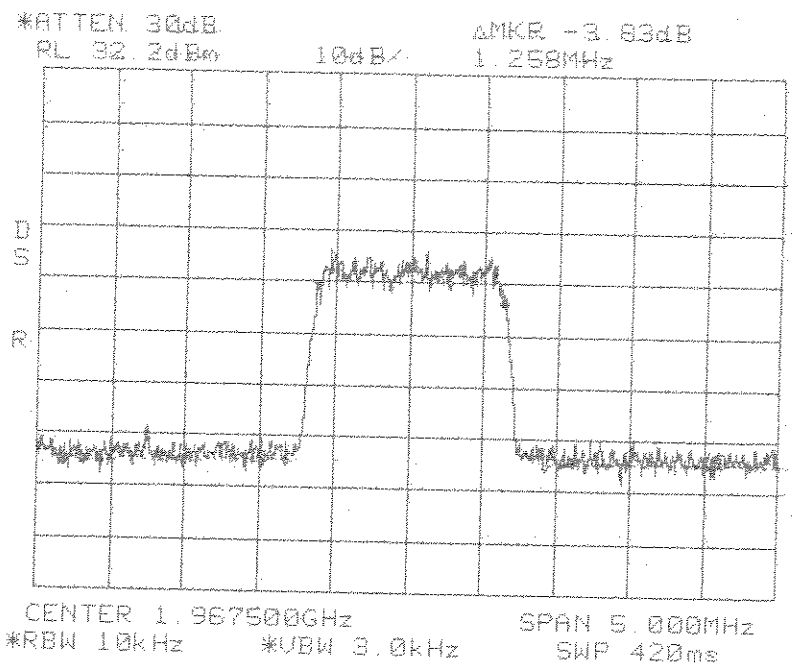
**Occupied Bandwidth
GSM In
PCS 1900 MHz
E Band**



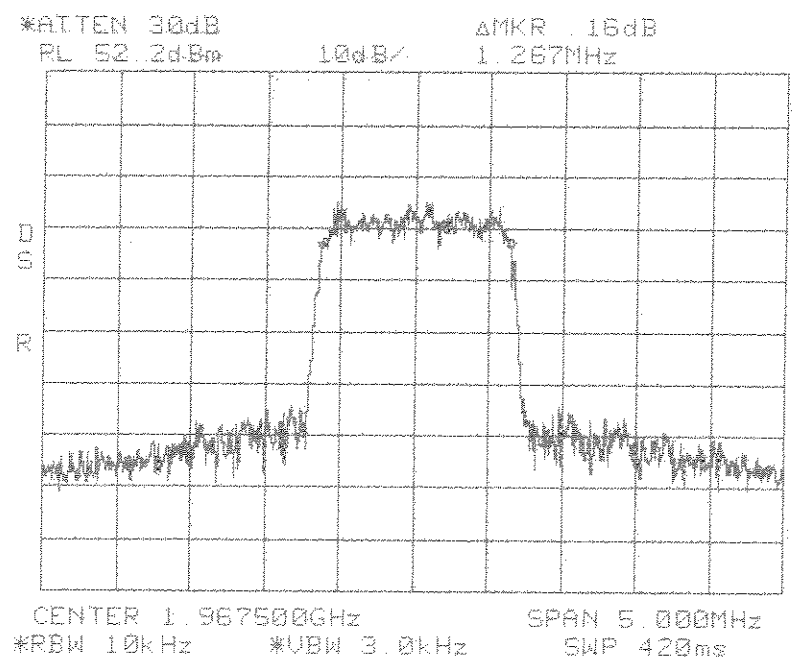
**Occupied Bandwidth
GSM Out
PCS 1900 MHz
E Band**

Center: 1962.5 MHz
Span: 1 MHz
RBW/VBW: 3 kHz / 3 kHz

Center: 1967.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



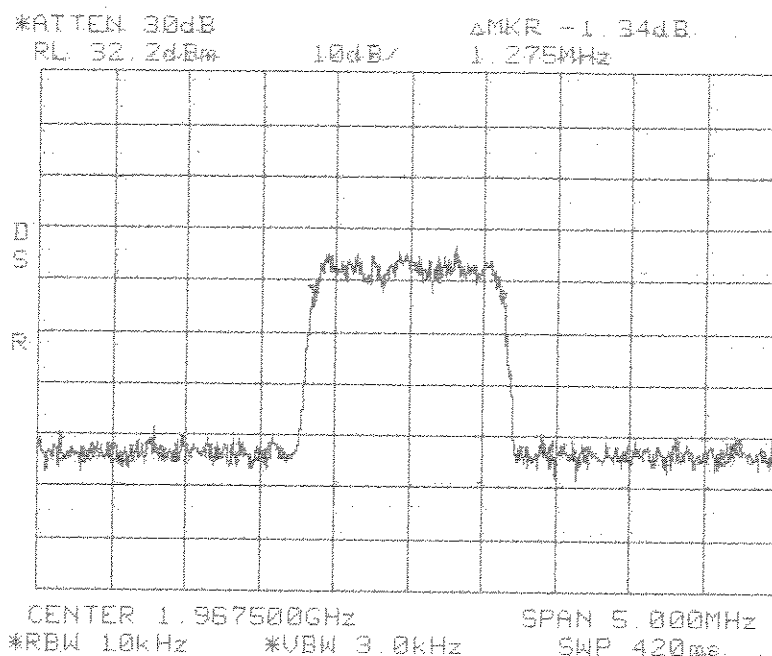
**Occupied Bandwidth
CDMA In
PCS 1900 MHz
E Band**



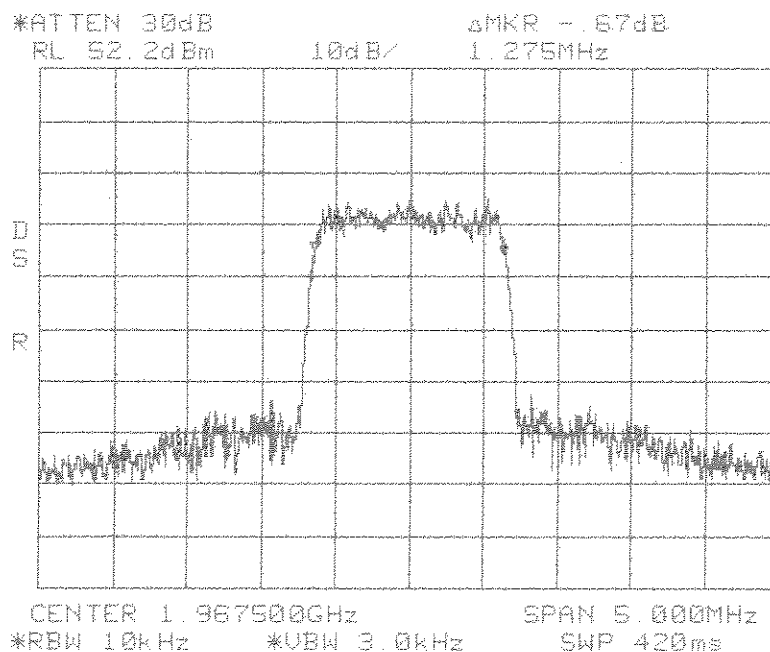
**Occupied Bandwidth
CDMA Out
PCS 1900 MHz
E Band**

Center: 1967.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1967.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



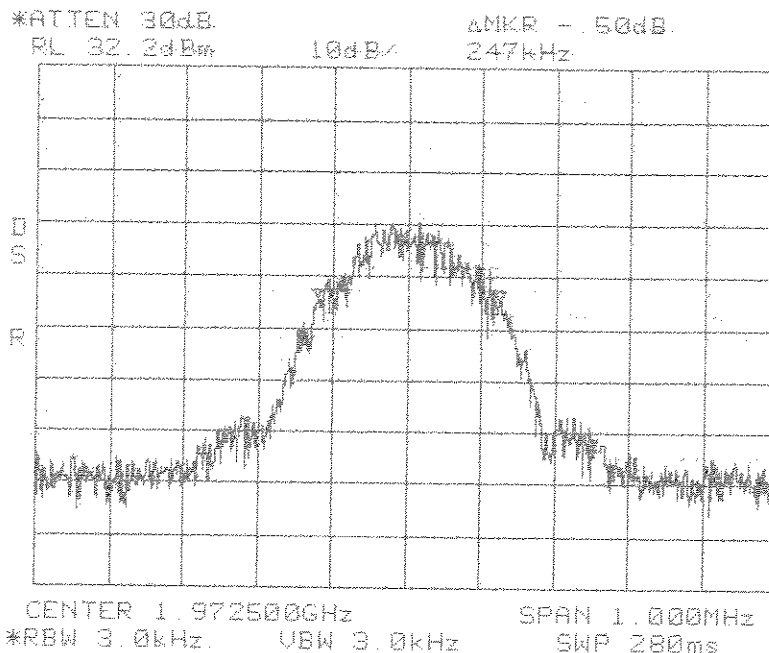
**Occupied Bandwidth
CDMA2000 In
PCS 1900 MHz
E Band
1xRTT**



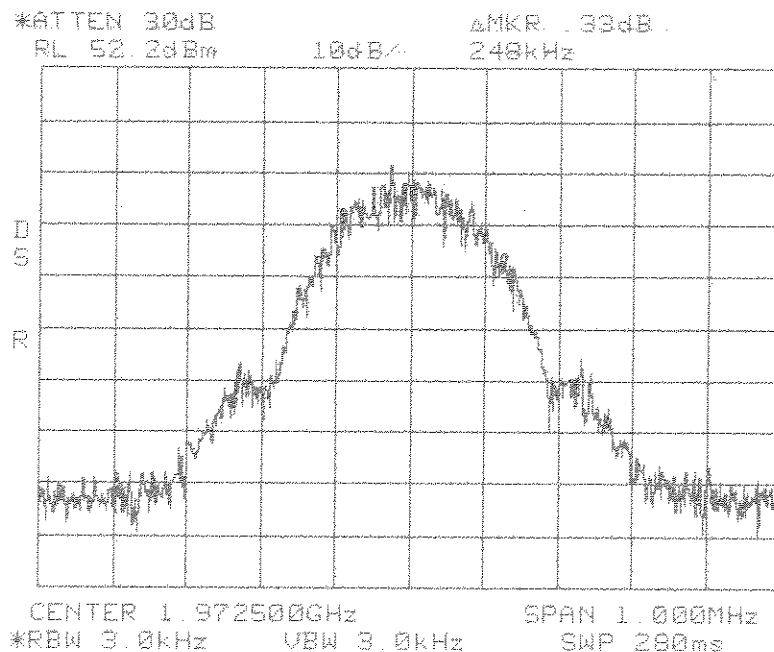
**Occupied Bandwidth
CDMA2000 Out
PCS 1900 MHz
E Band
2xRTT**

Center: 1967.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1972.5 MHz
Span: 1 MHz
RBW/VBW: 3 kHz / 3 kHz



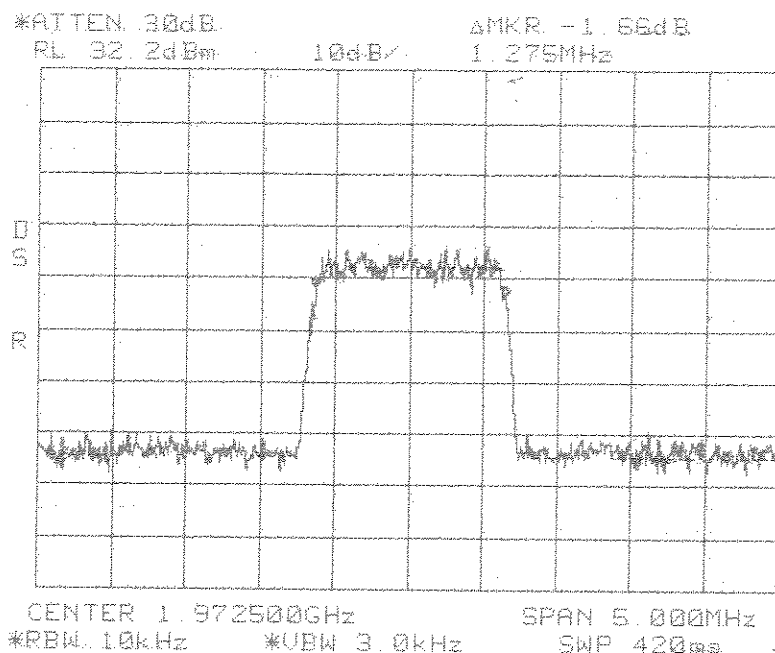
**Occupied Bandwidth
GSM In
PCS 1900 MHz
F Band**



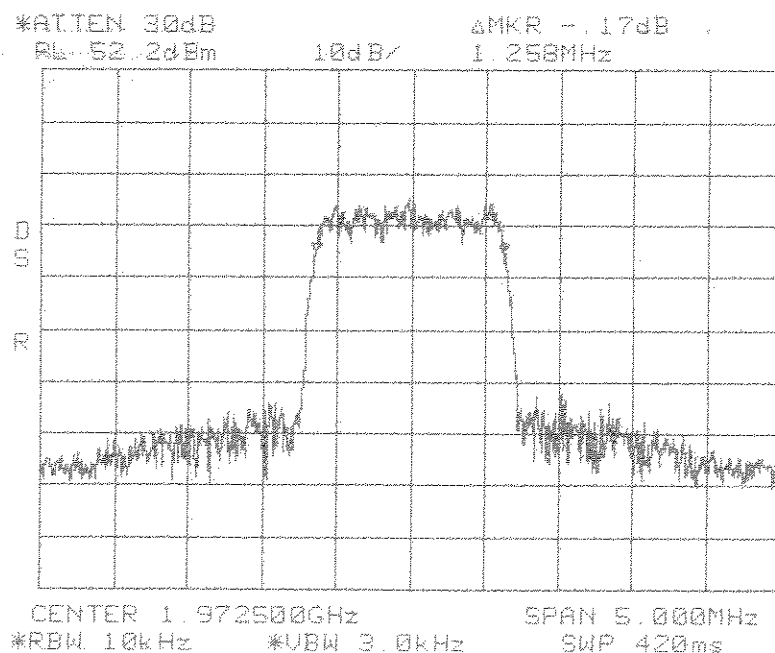
**Occupied Bandwidth
GSM Out
PCS 1900 MHz
F Band**

Center: 1972.5 MHz
Span: 1 MHz
RBW/VBW: 3 kHz / 3 kHz

Center: 1972.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



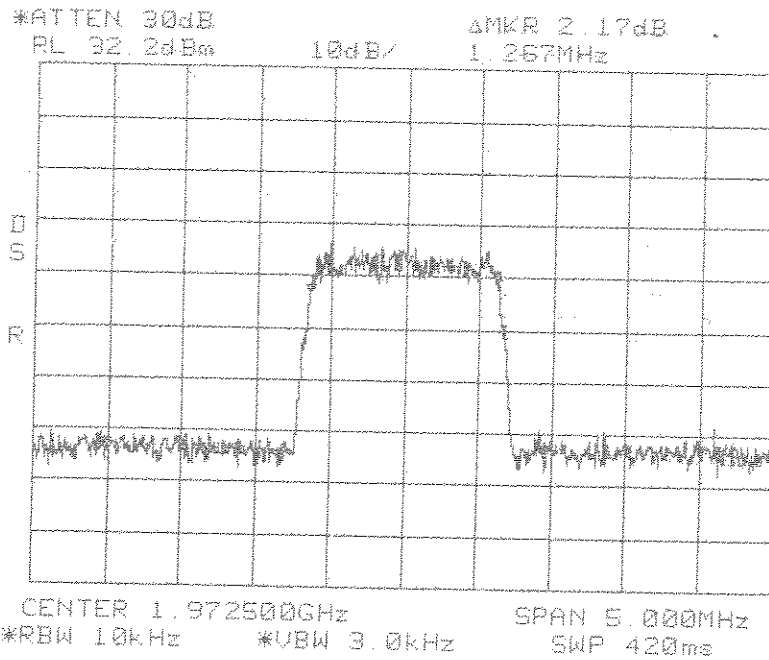
**Occupied Bandwidth
CDMA In
PCS 1900 MHz
F Band**



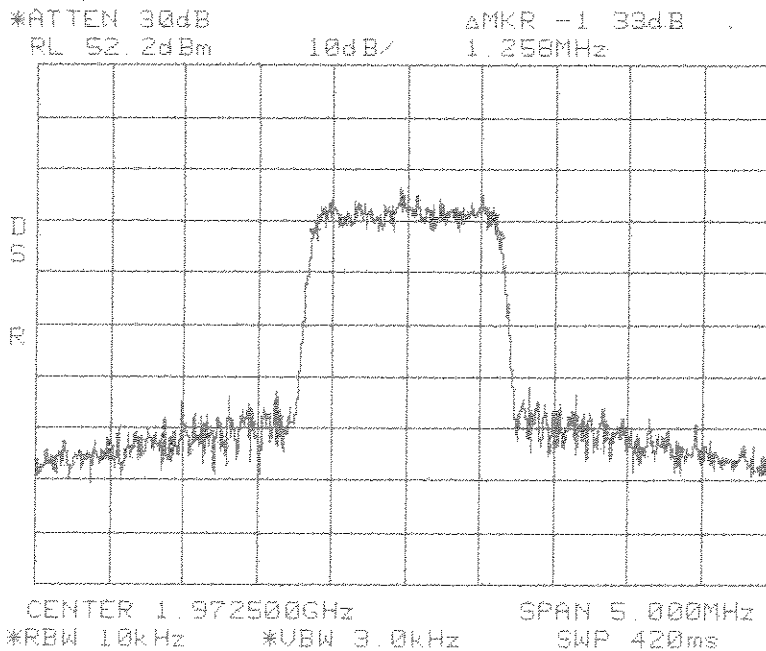
**Occupied Bandwidth
CDMA Out
PCS 1900 MHz
F Band**

Center: 1972.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1972.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



**Occupied Bandwidth
CDMA2000 In
PCS 1900 MHz
F Band**
1xRTT

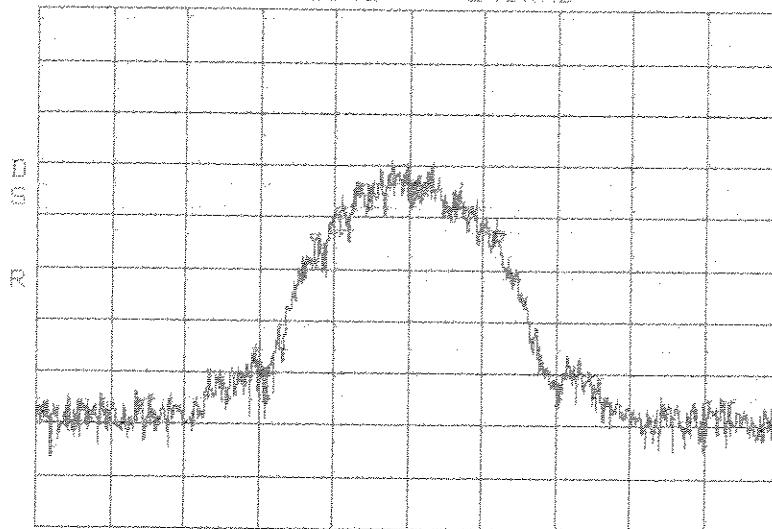


**Occupied Bandwidth
CDMA2000 Out
PCS 1900 MHz
F Band**
1xRTT

Center: 1972.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1982.5 MHz
Span: 1 MHz
RBW/VBW: 3 kHz / 3 kHz

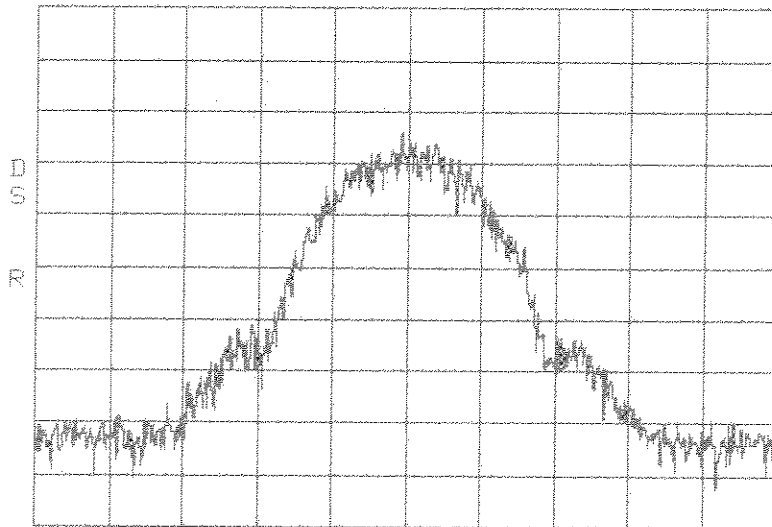
*ATTEN 30dB
RL 32.2dBm 10dB/ 245kHz



CENTER 1.982500GHz SPAN 1.000MHz
*RBW 3.0kHz VBW 3.0kHz SWP 200ms

**Occupied Bandwidth
GSM In
PCS 1900 MHz
C Band**

*ATTEN 30dB
RL 52.2dBm 10dB/ 245kHz

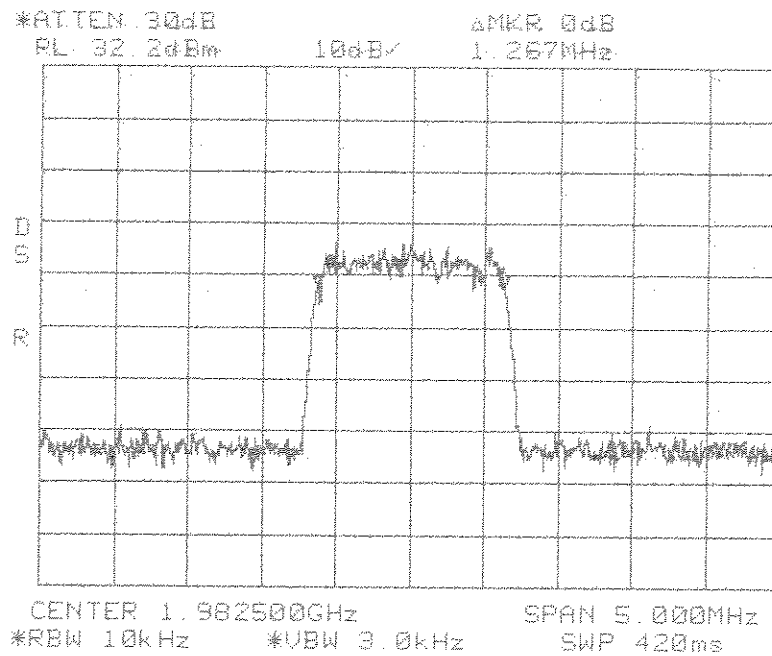


CENTER 1.982500GHz SPAN 1.000MHz
*RBW 3.0kHz VBW 3.0kHz SWP 200ms

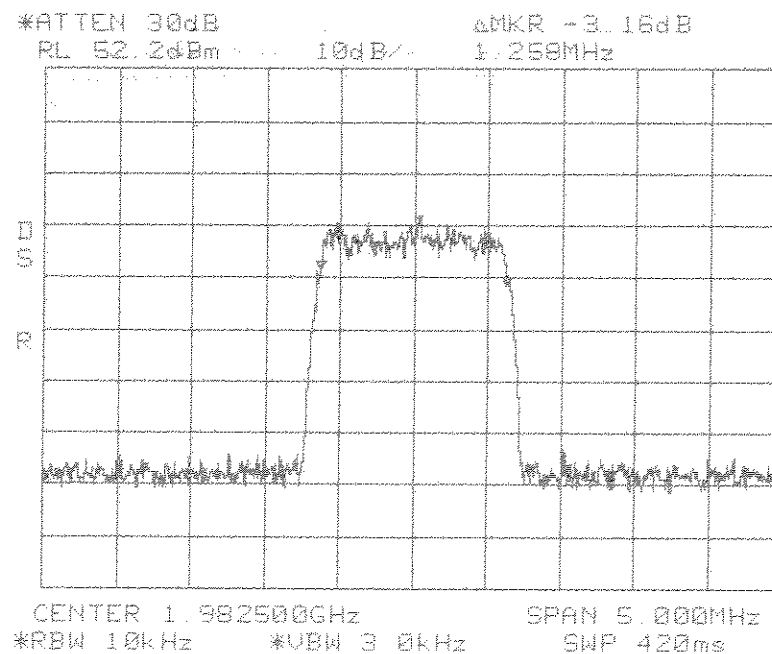
**Occupied Bandwidth
GSM Out
PCS 1900 MHz
C Band**

Center: 1982.5 MHz
Span: 1 MHz
RBW/VBW: 3 kHz / 3 kHz

Center: 1982.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



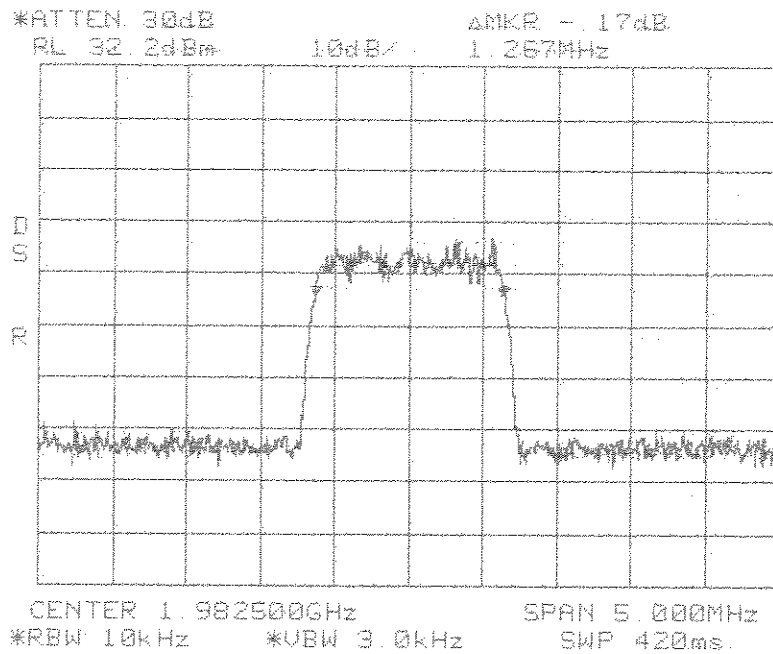
**Occupied Bandwidth
CDMA In
PCS 1900 MHz
C Band**



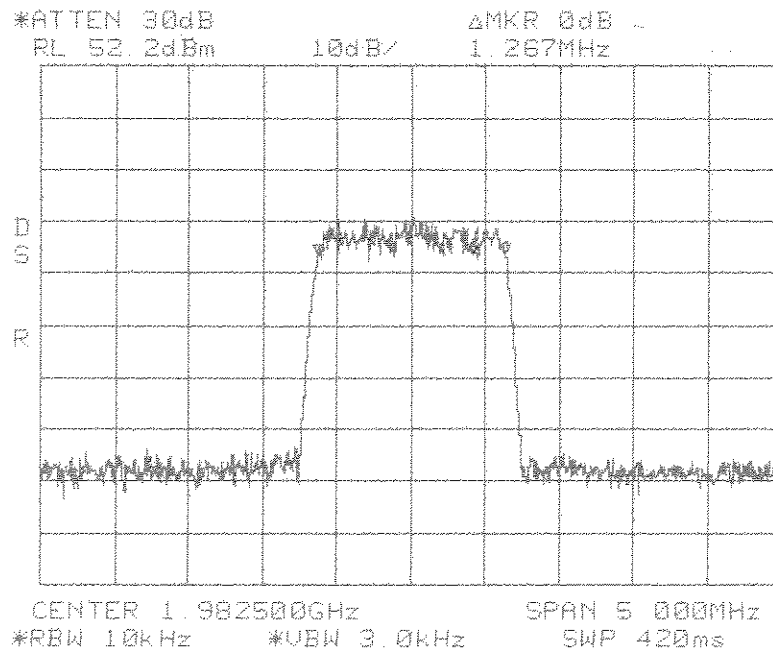
**Occupied Bandwidth
CDMA Out
PCS 1900 MHz
C Band**

Center: 1982.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1982.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



**Occupied Bandwidth
CDMA2000 In
PCS 1900 MHz
C Band
1xRTT**



**Occupied Bandwidth
CDMA2000 Out
PCS 1900 MHz
C Band
1xRTT**

Center: 1982.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

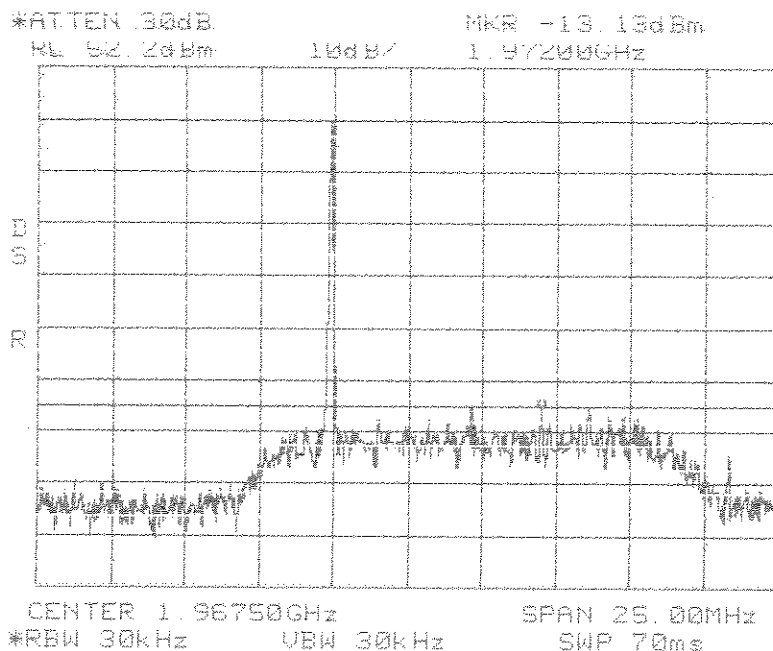
Conducted Emission Limits Test for ADC Inc.
Digivance CXD
Model Number DGVF-05000000CRN

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10th harmonic of the highest carrier frequency. Test signals used are GSM, CDMA, and CDMA2000. The different signals were input one at a time to the EUT. In all cases, the out of band emissions were less than -13dBm from the equation
$$(19\text{dBm} - [43 + 10\log(0.08W)])$$

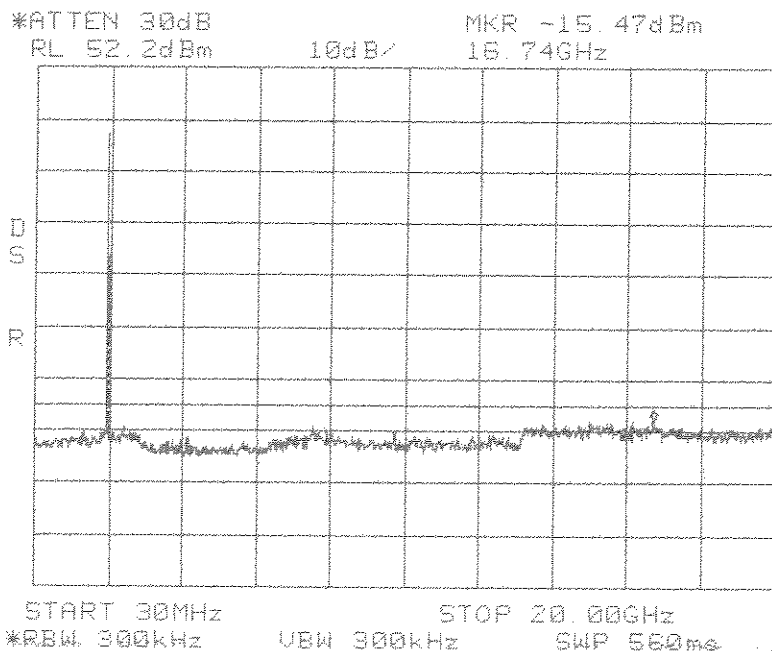
Band edge compliance is also demonstrated using a signal at the upper and lower limits of the band and a resolution bandwidth of 300 Hz.

Results:
Pass (See plots)

Center: 1967.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



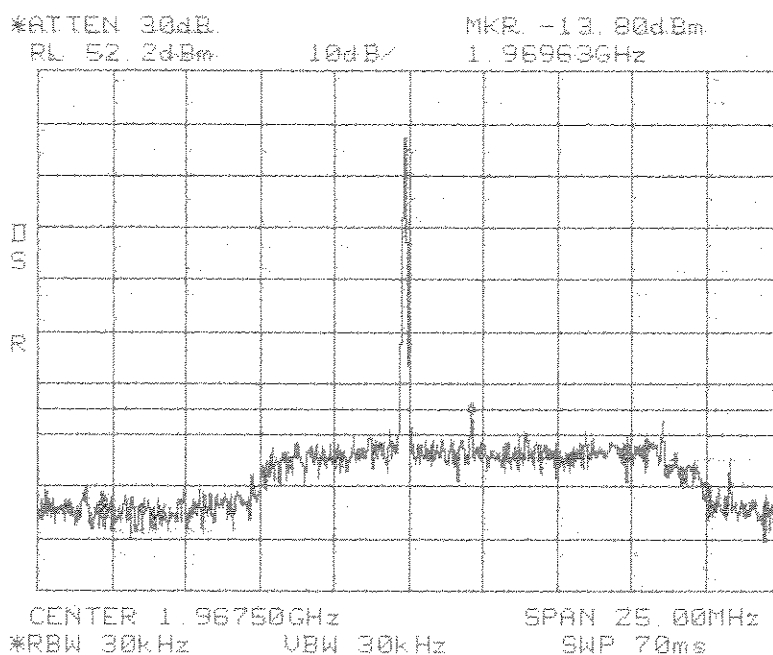
**Conducted Emissions
Low
PCS 1900 MHz
E Band**



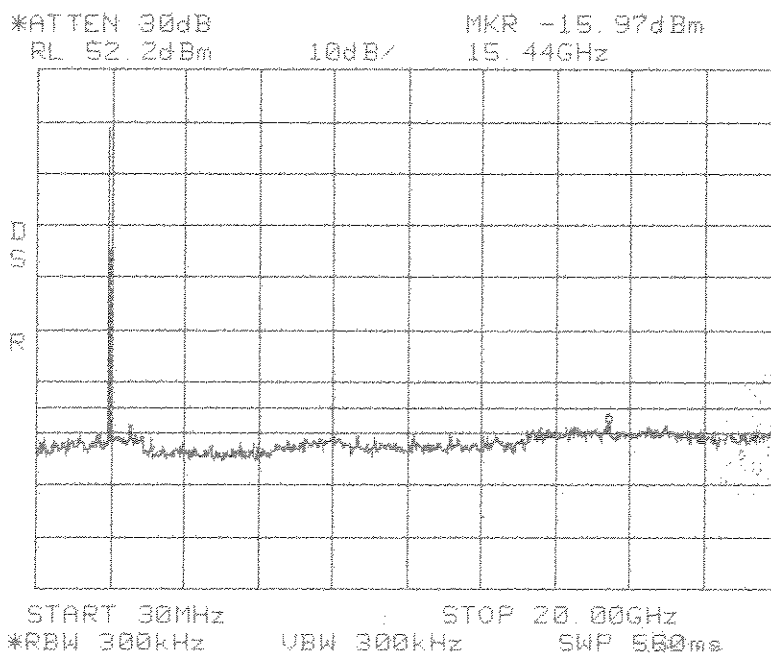
**Conducted Emissions
Low
PCS 1900 MHz
E Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1967.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



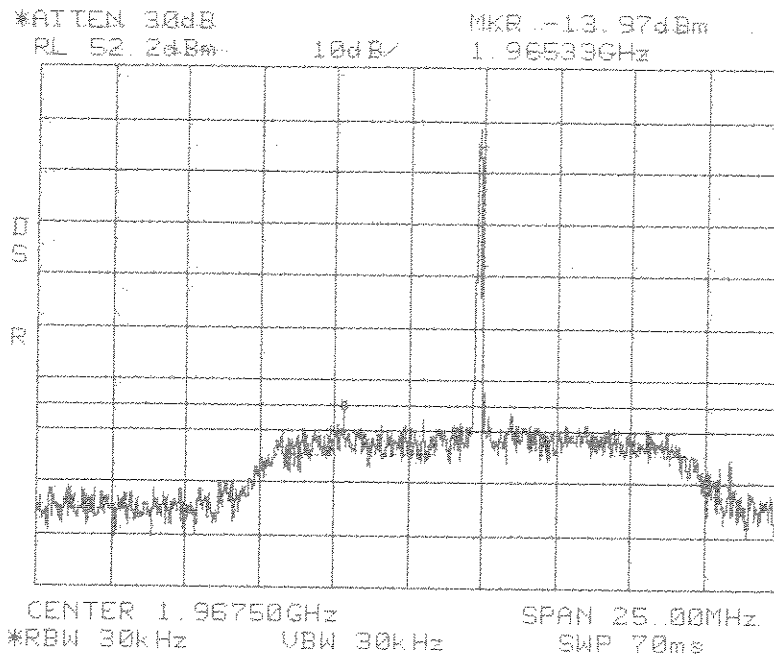
**Conducted Emissions
Mid
PCS 1900 MHz
E Band**



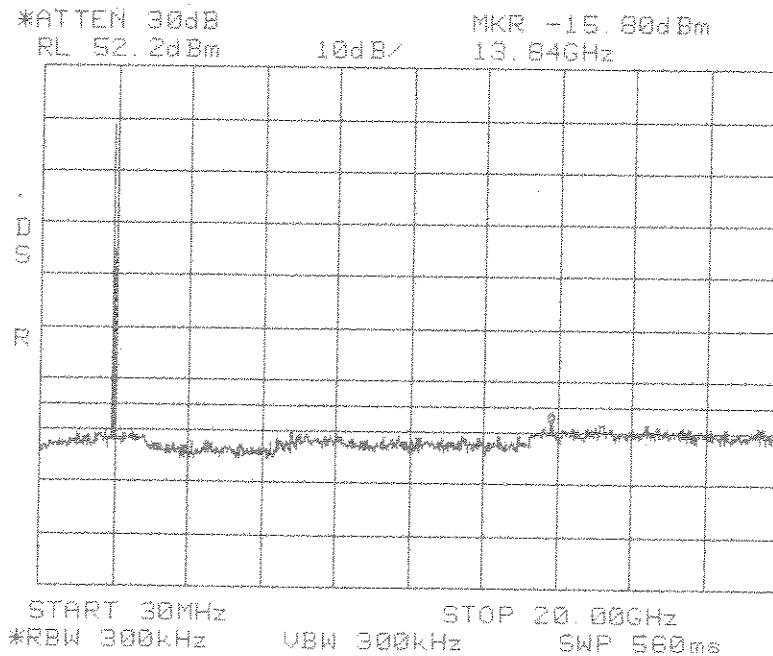
**Conducted Emissions
Mid
PCS 1900 MHz
E Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1967.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



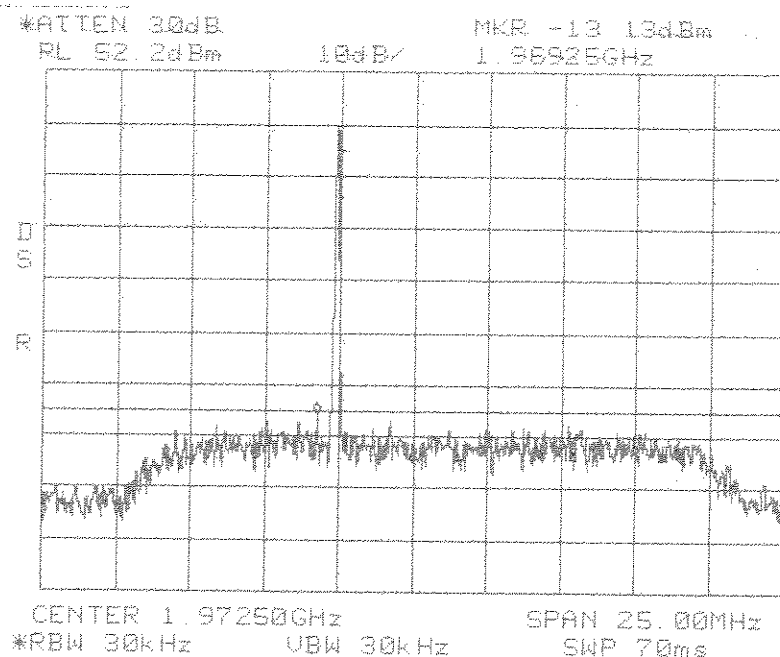
**Conducted Emissions
High
PCS 1900 MHz
E Band**



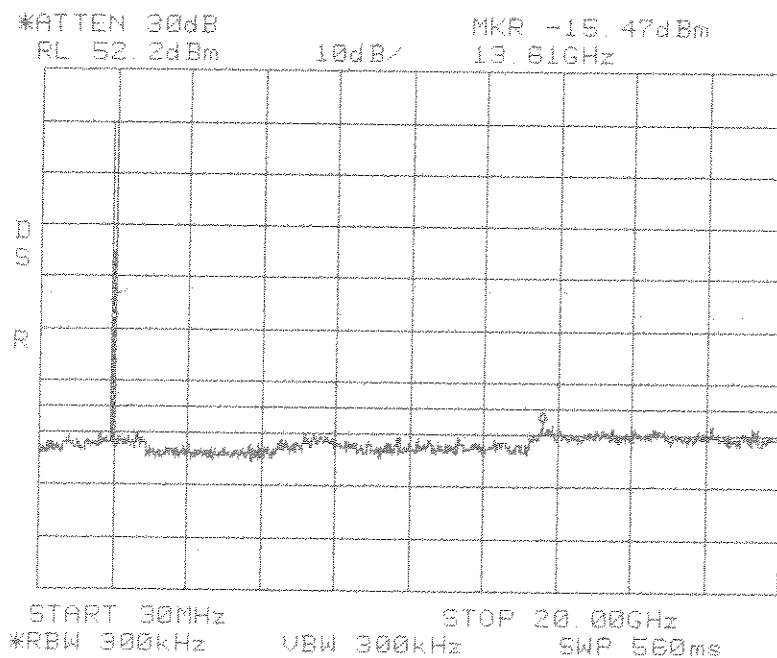
**Conducted Emissions
High
PCS 1900 MHz
E Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1972.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



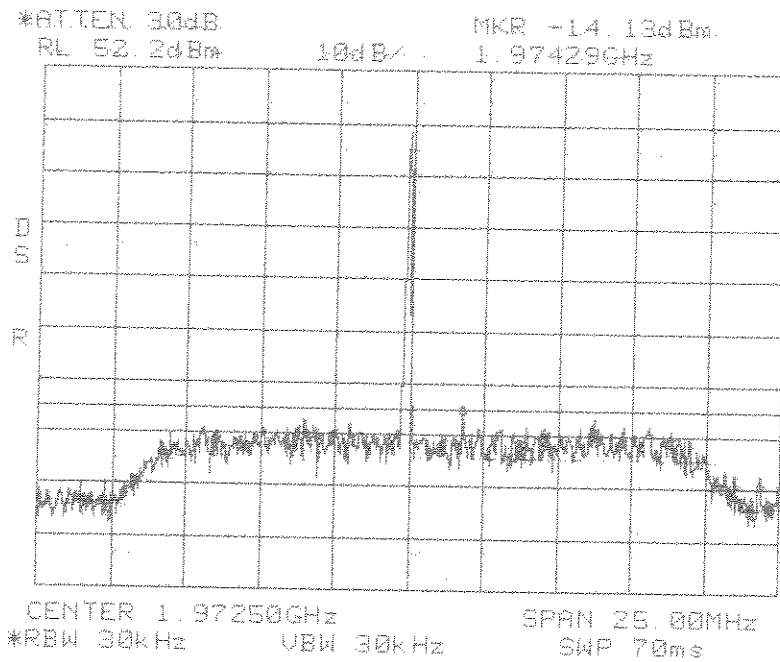
**Conducted Emissions
Low
PCS 1900 MHz
F Band**



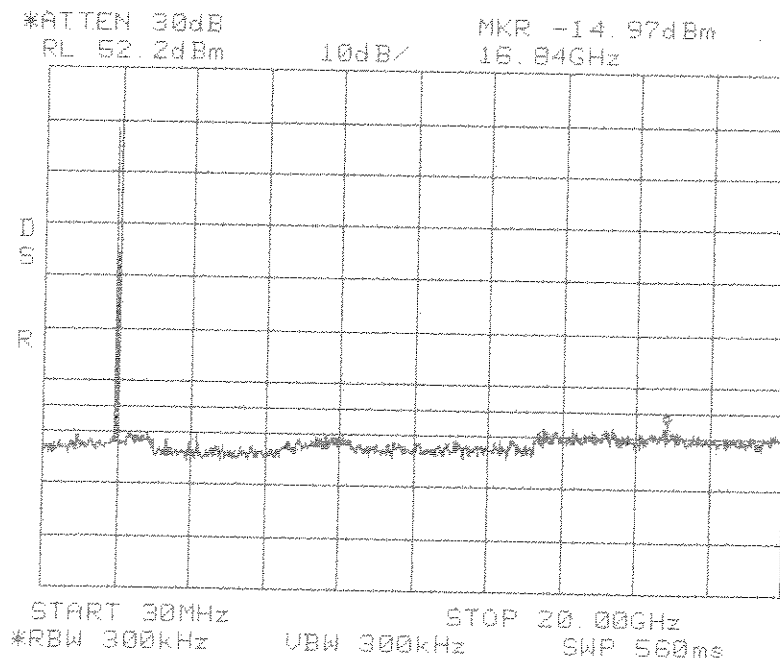
**Conducted Emissions
Low
PCS 1900 MHz
F Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1972.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



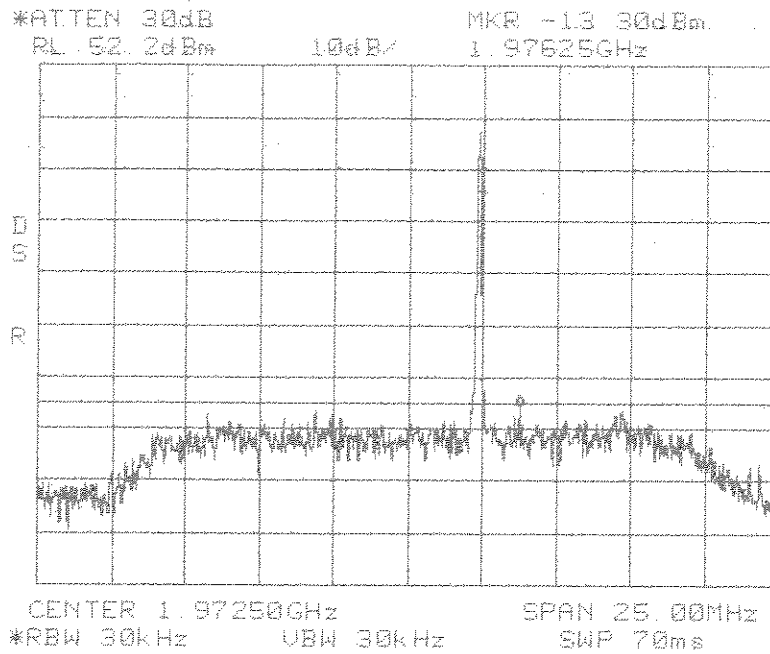
**Conducted Emissions
Mid
PCS 1900 MHz
F Band**



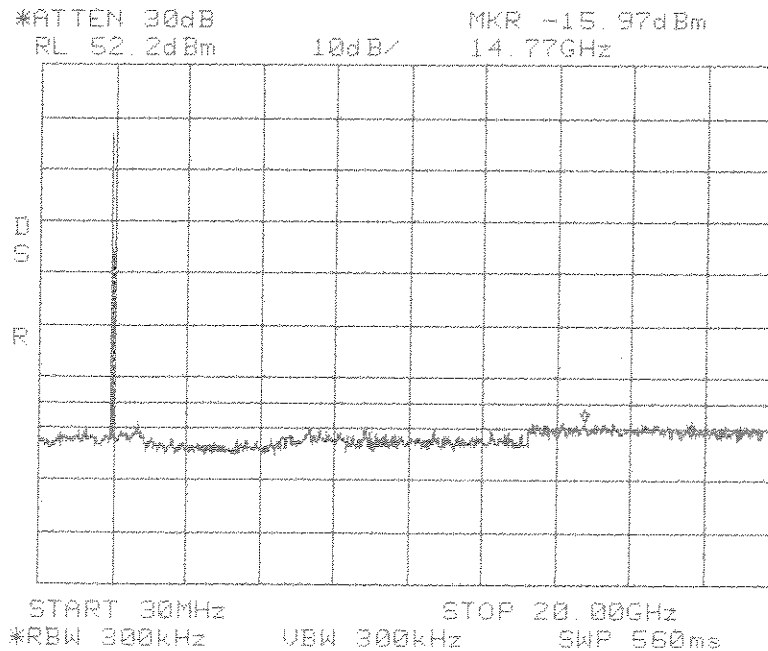
**Conducted Emissions
Mid
PCS 1900 MHz
F Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1972.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



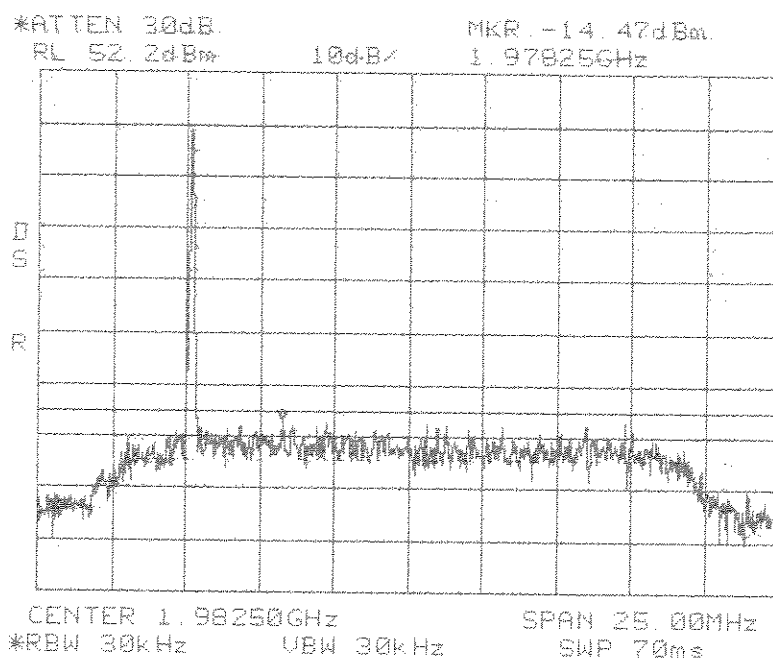
**Conducted Emissions
High
PCS 1900 MHz
F Band**



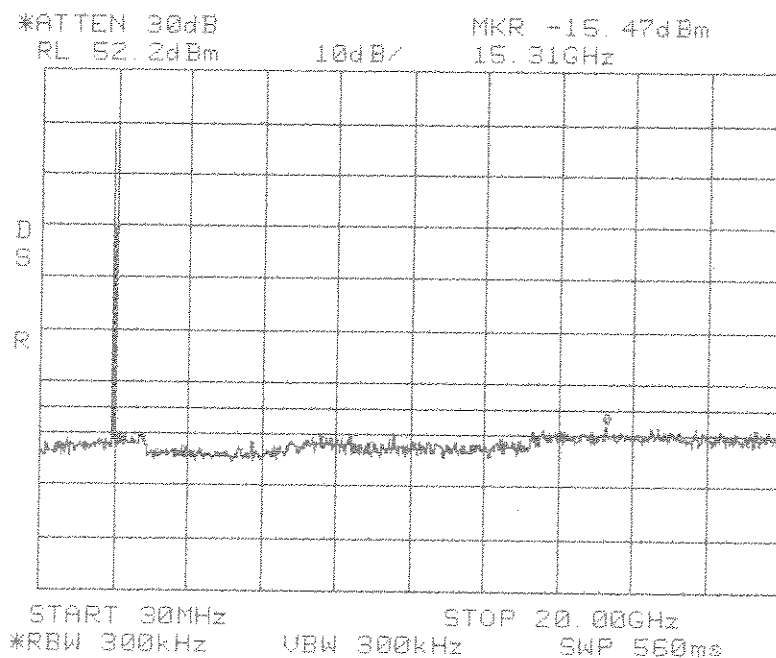
**Conducted Emissions
High
PCS 1900 MHz
F Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1982.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



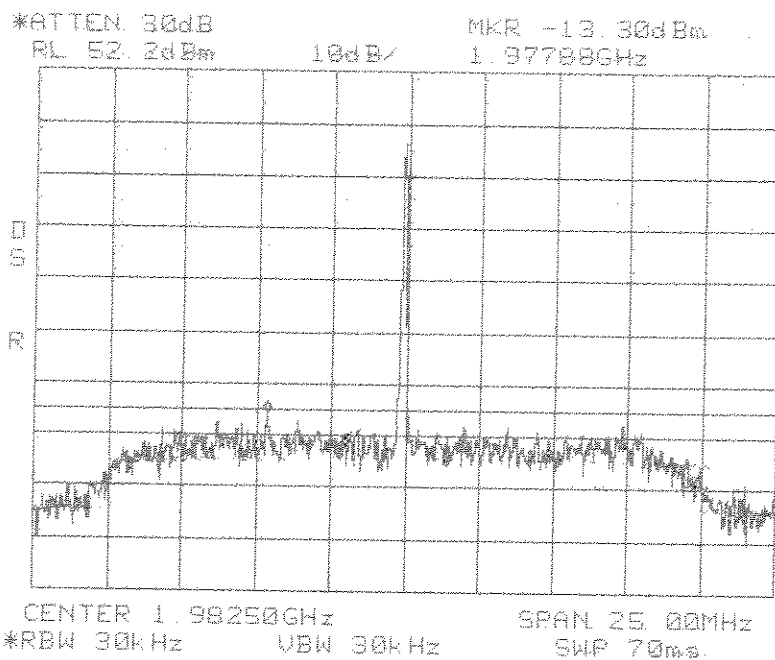
**Conducted Emissions
Low
PCS 1900 MHz
C Band**



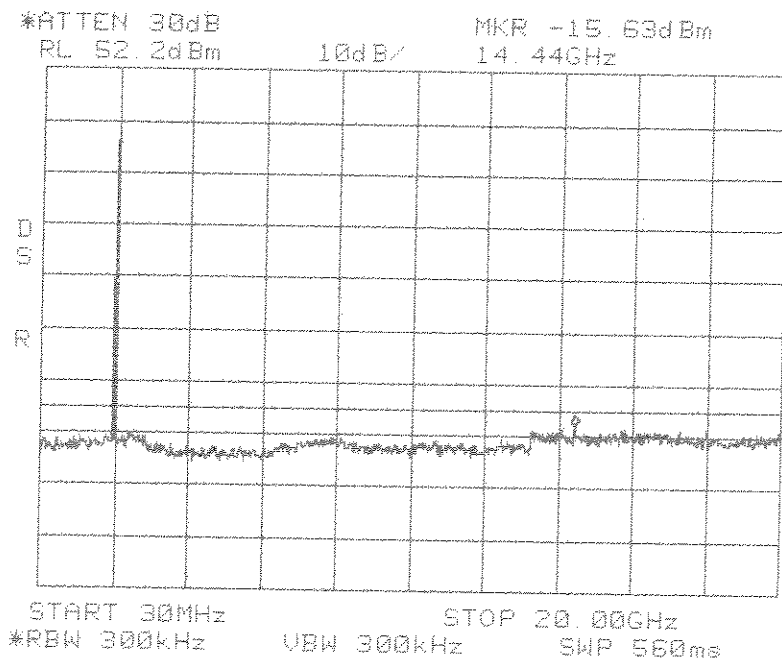
**Conducted Emissions
Low
PCS 1900 MHz
C Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1982.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



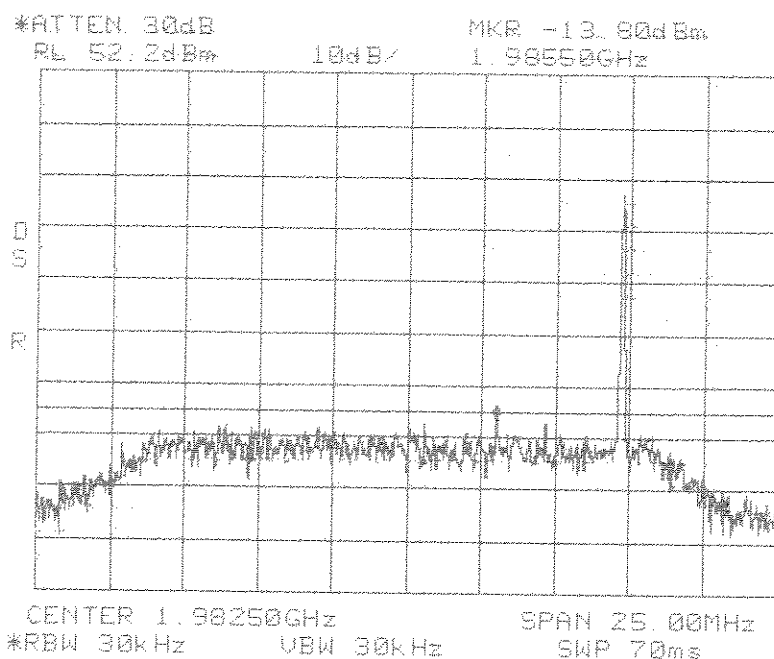
**Conducted Emissions
Mid
PCS 1900 MHz
C Band**



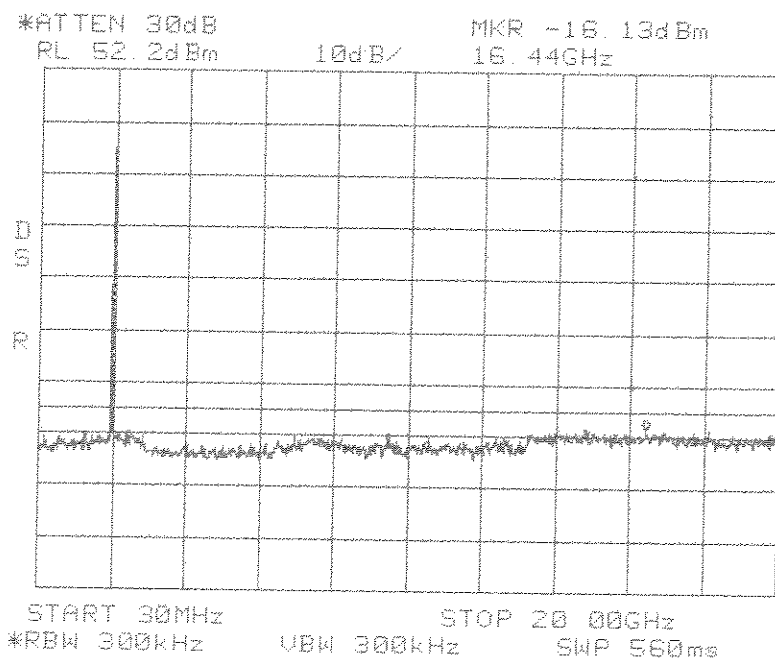
**Conducted Emissions
Mid
PCS 1900 MHz
C Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1982.5 MHz
Span: 25 MHz
RBW/VBW: 30 kHz



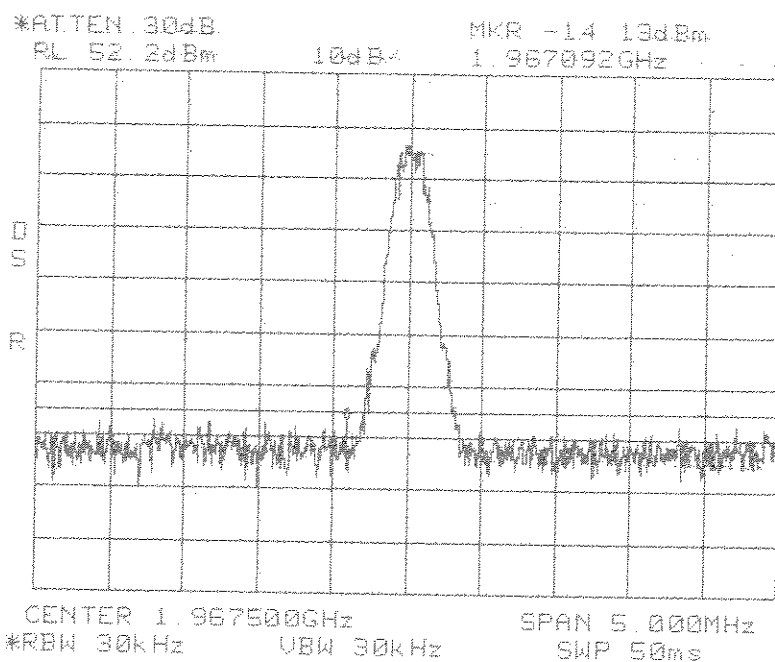
Conducted Emissions High PCS 1900 MHz C Band



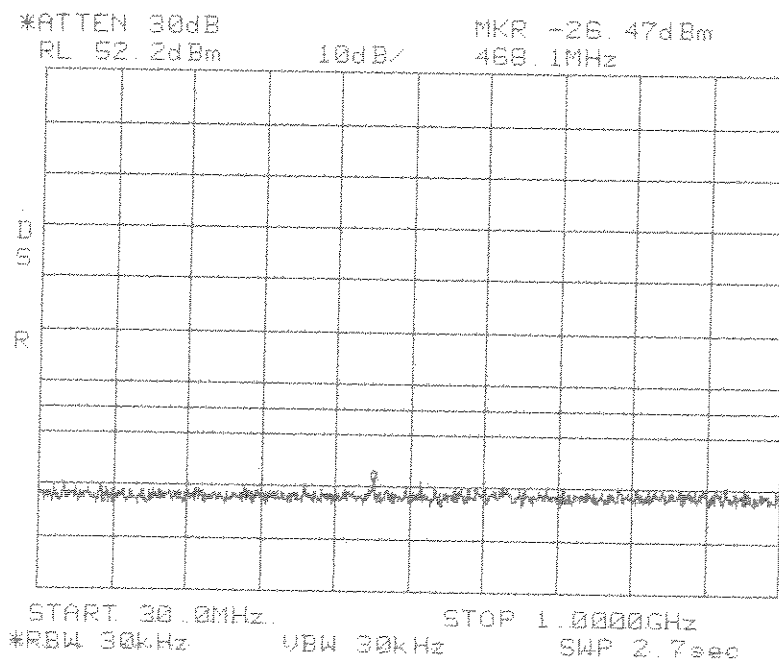
Conducted Emissions High PCS 1900 MHz C Band

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1967.5 MHz
Span: 5 MHz
RBW/VBW: 30 kHz



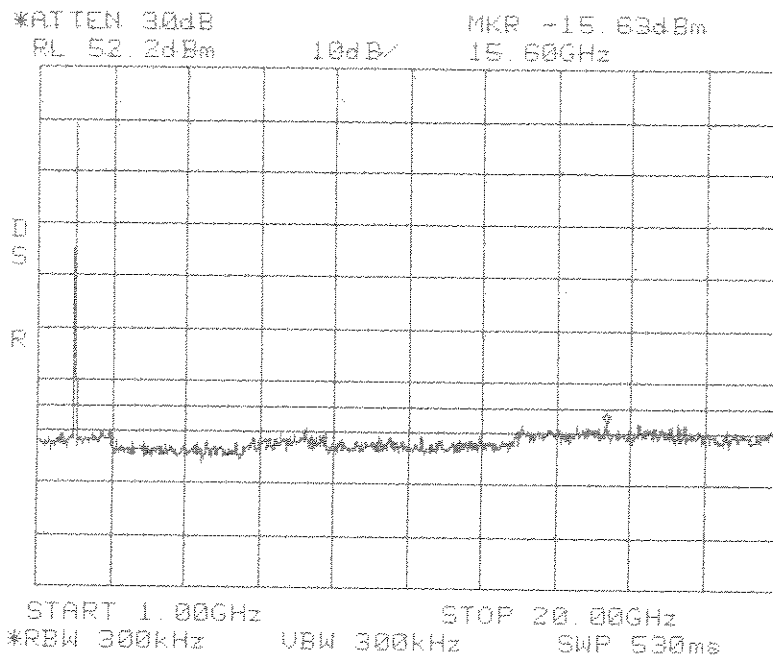
Conducted Emissions
GSM
PCS 1900 MHz
E Band



Conducted Emissions
GSM
PCS 1900 MHz
E Band

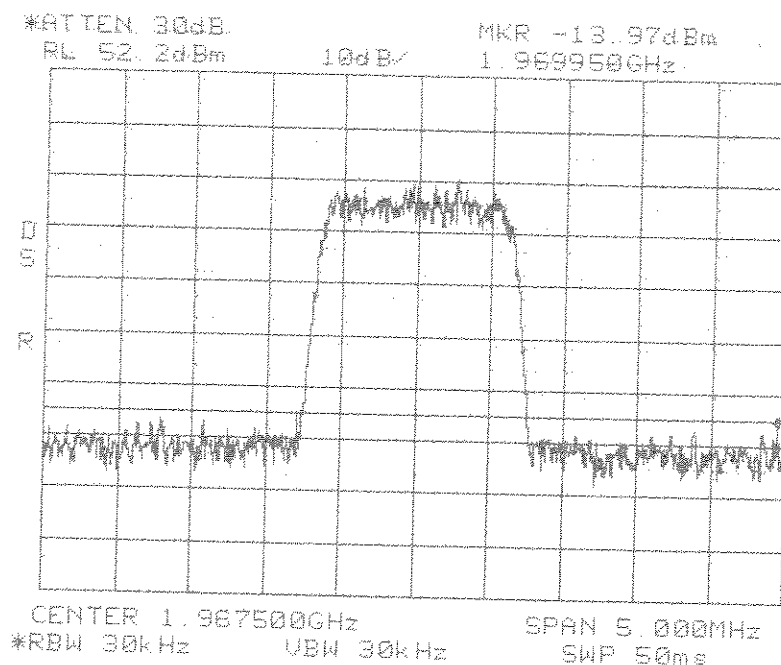
Span: 30 MHz to 1 GHz
RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

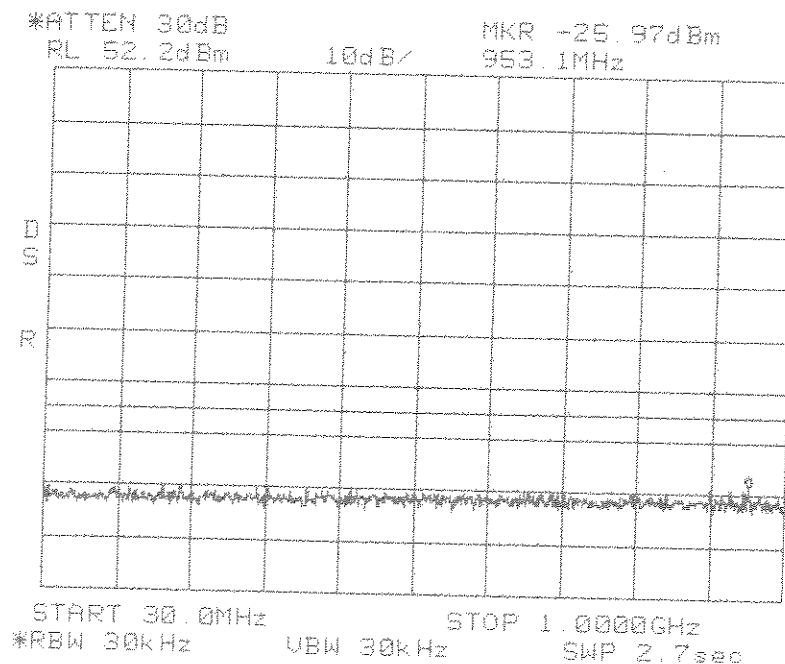


Conducted Emissions
GSM
PCS 1900 MHz
E Band

Center: 1967.5 MHz
Span: 5 MHz
RBW/VBW: 30 kHz



**Conducted Emissions
CDMA
PCS 1900 MHz
E Band**

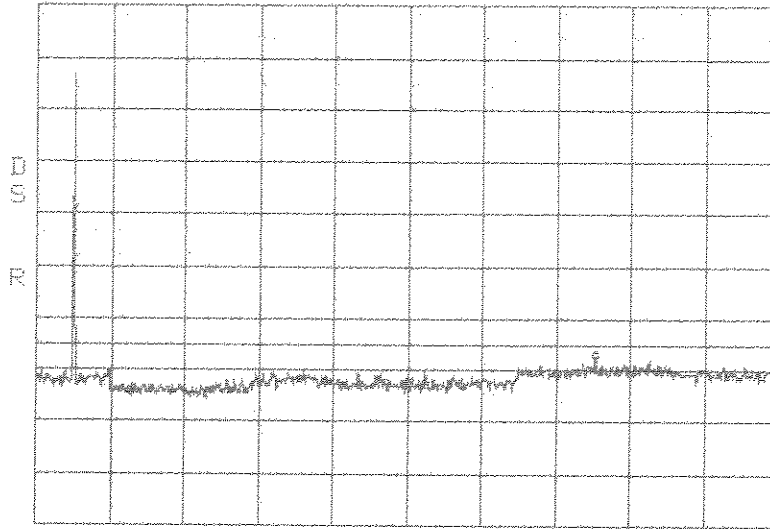


**Conducted Emissions
CDMA
PCS 1900 MHz
E Band**

Span: 30 MHz to 1 GHz
RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

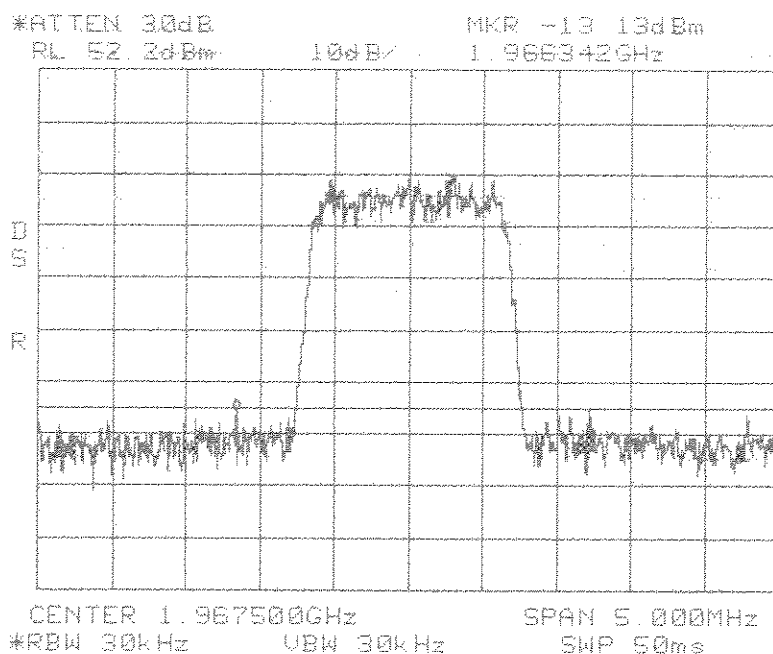
*ATTEN 30dB MKR -25.97dBm
*ATTEN 30dB MKR -15.80dBm
RL 52.2dBm 10dB 15.31GHz



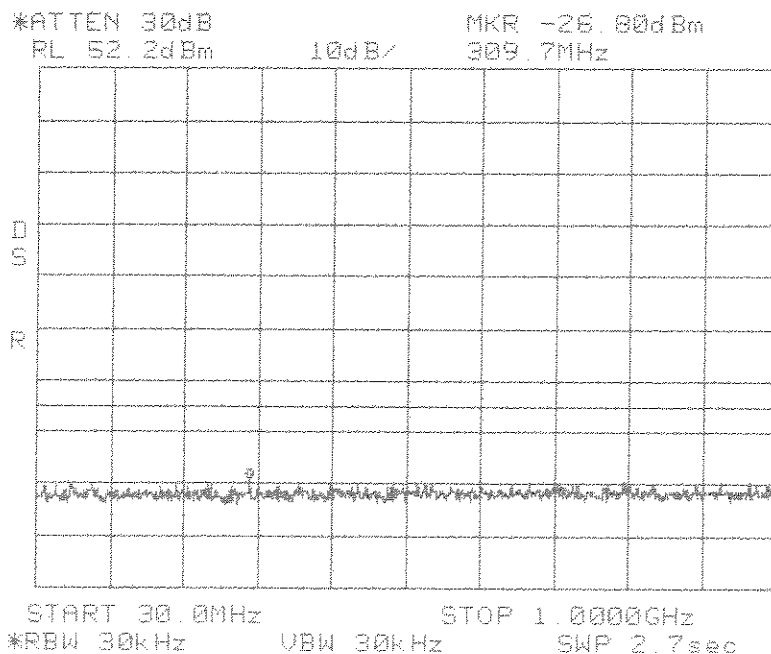
Conducted Emissions
CDMA
PCS 1900 MHz
E Band

START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Center: 1967.5 MHz
 Span: 5 MHz
 RBW/VBW: 30 kHz



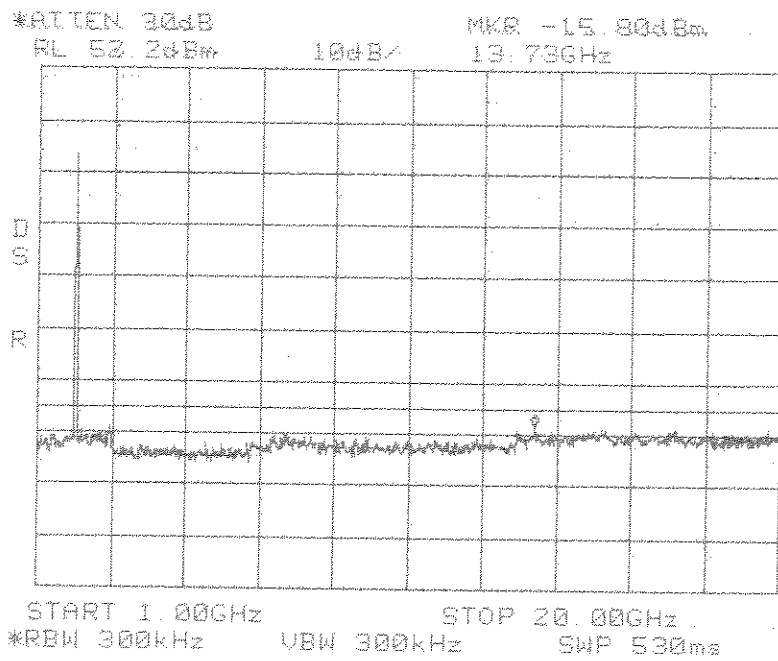
Conducted Emissions
CDMA2000
PCS 1900 MHz
E Band
1xRTT



Conducted Emissions
CDMA2000
PCS 1900 MHz
E Band
1xRTT

Span: 30 MHz to 1 GHz
 RBW/VBW: 30 kHz

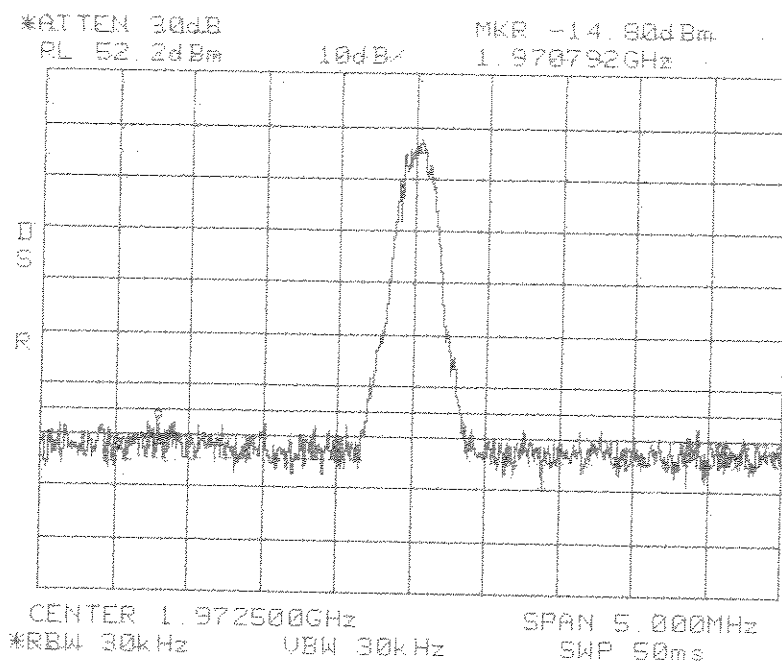
Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz



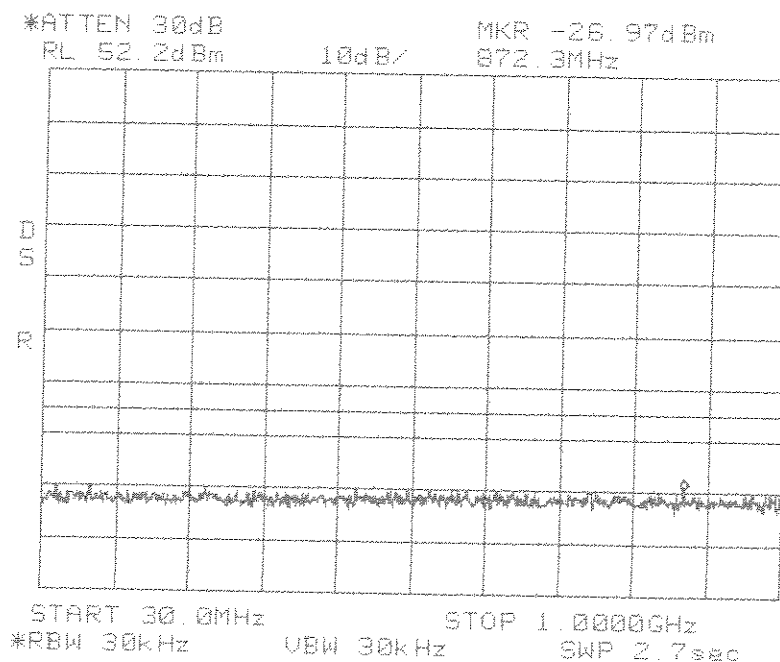
Conducted Emissions
CDMA2000
PCS 1900 MHz
E Band

1xRTT

Center: 1972.5 MHz
Span: 5 MHz
RBW/VBW: 30 kHz



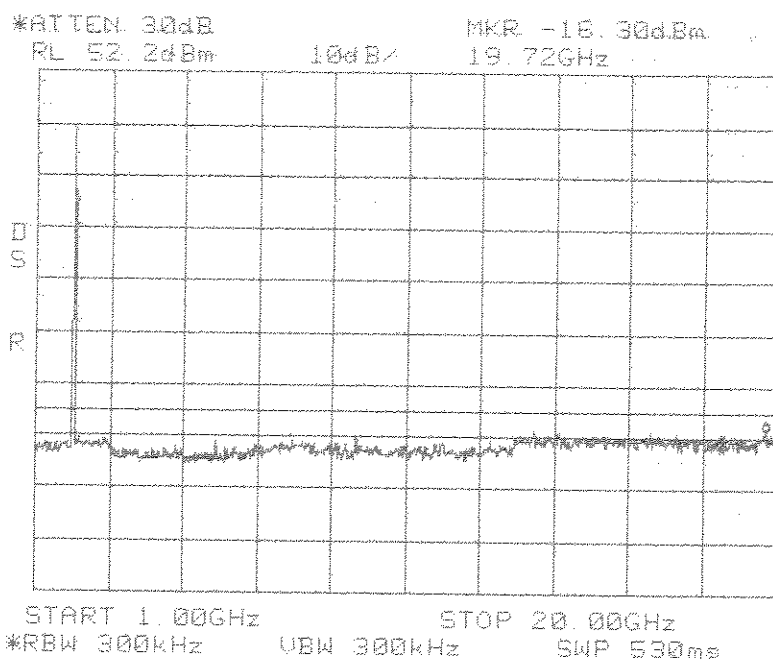
Conducted Emissions
GSM
PCS 1900 MHz
F Band



Conducted Emissions
GSM
PCS 1900 MHz
F Band

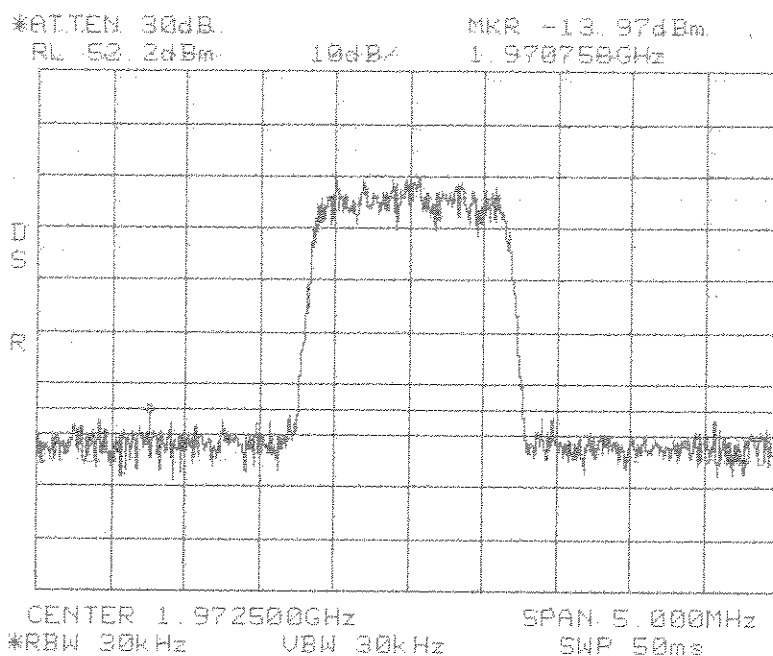
Span: 30 MHz to 1 GHz
RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

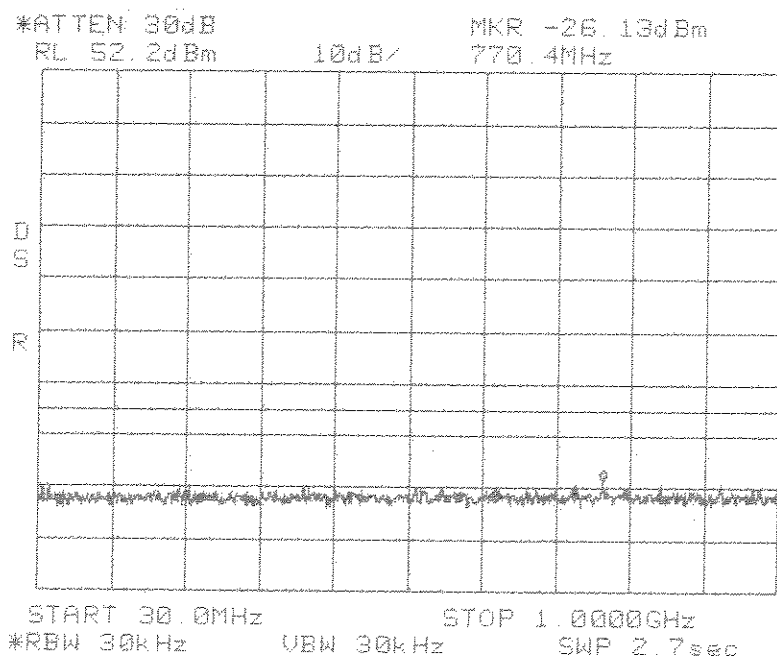


Conducted Emissions
GSM
PCS 1900 MHz
F Band

Center: 1972.5 MHz
Span: 5 MHz
RBW/VBW: 30 kHz



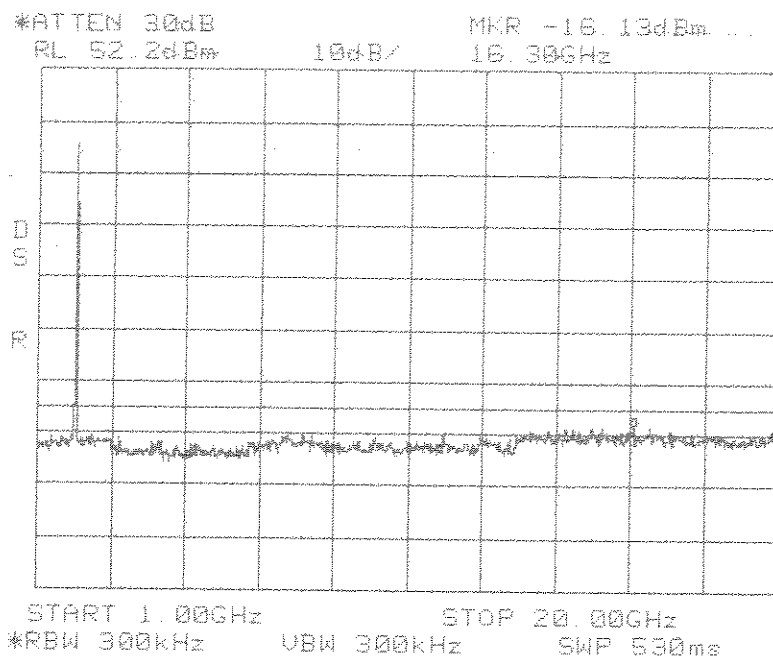
**Conducted Emissions
CDMA
PCS 1900 MHz
F Band**



**Conducted Emissions
CDMA
PCS 1900 MHz
F Band**

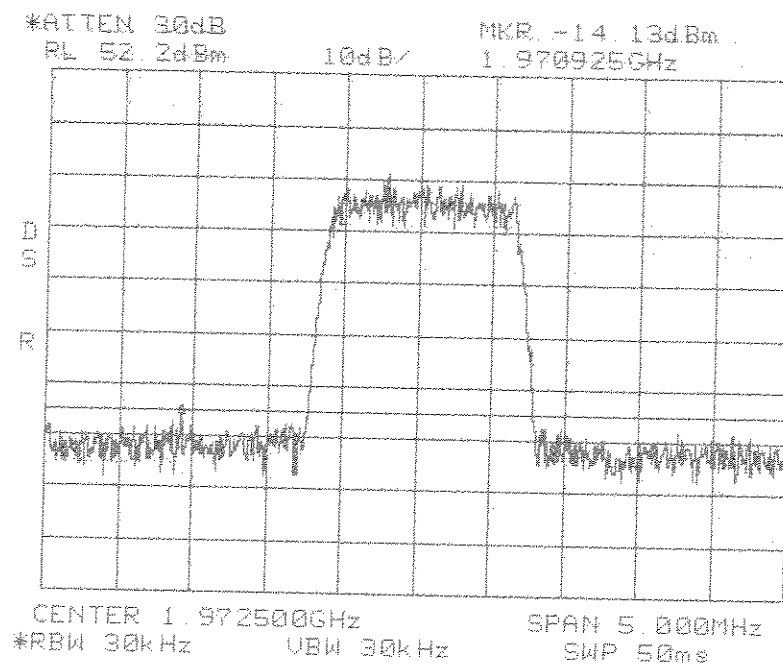
Span: 30 MHz to 1 GHz
RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

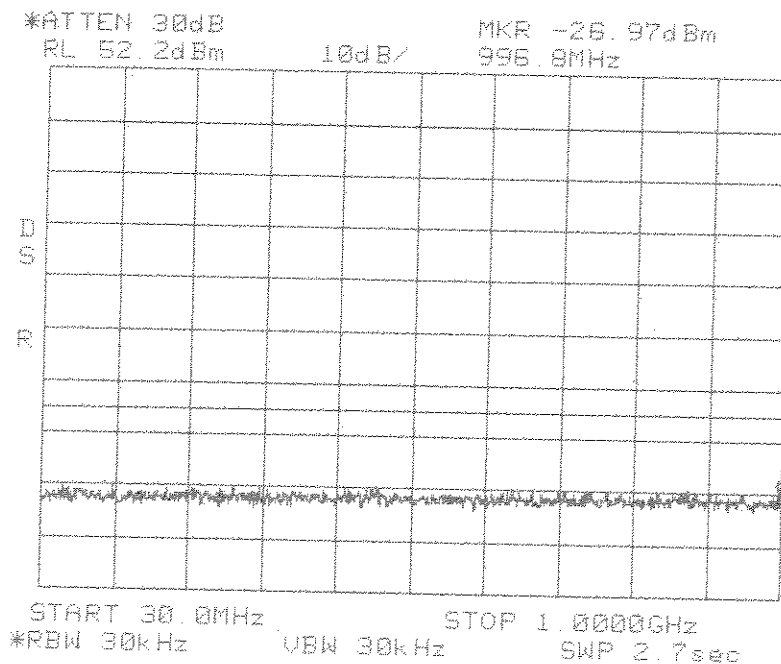


Conducted Emissions
CDMA
PCS 1900 MHz
F Band

Center: 1972.5 MHz
 Span: 5 MHz
 RBW/VBW: 30 kHz



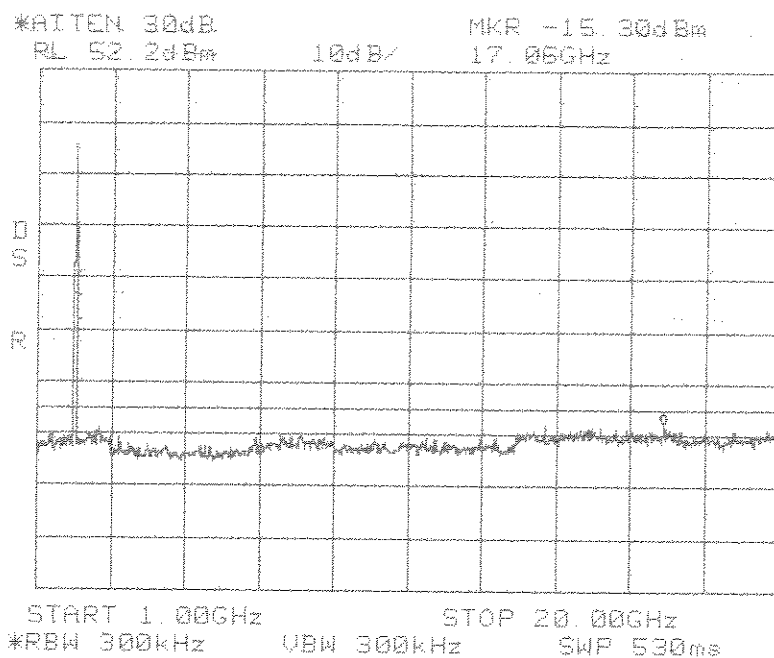
Conducted Emissions
CDMA2000
PCS 1900 MHz
F Band
 1xRTT



Conducted Emissions
CDMA2000
PCS 1900 MHz
F Band
 1xRTT

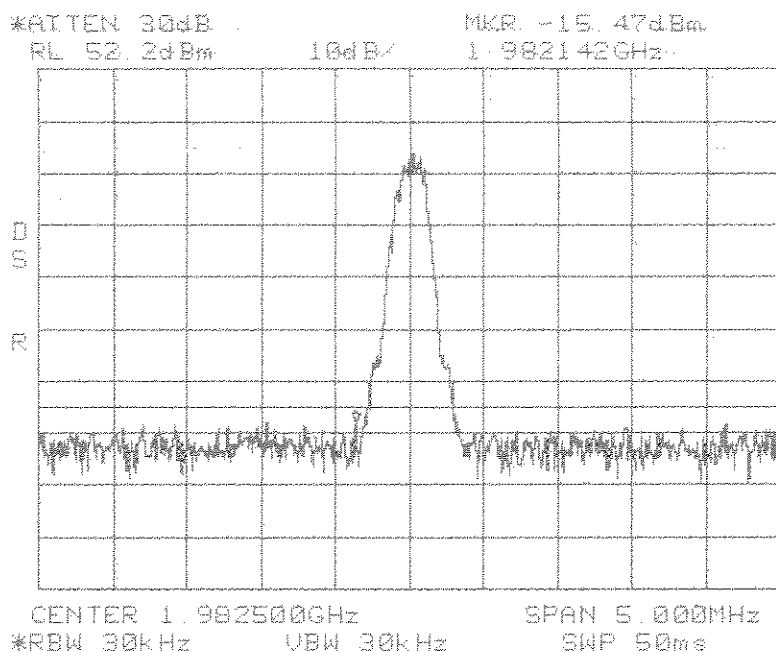
Span: 30 MHz to 1 GHz
 RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

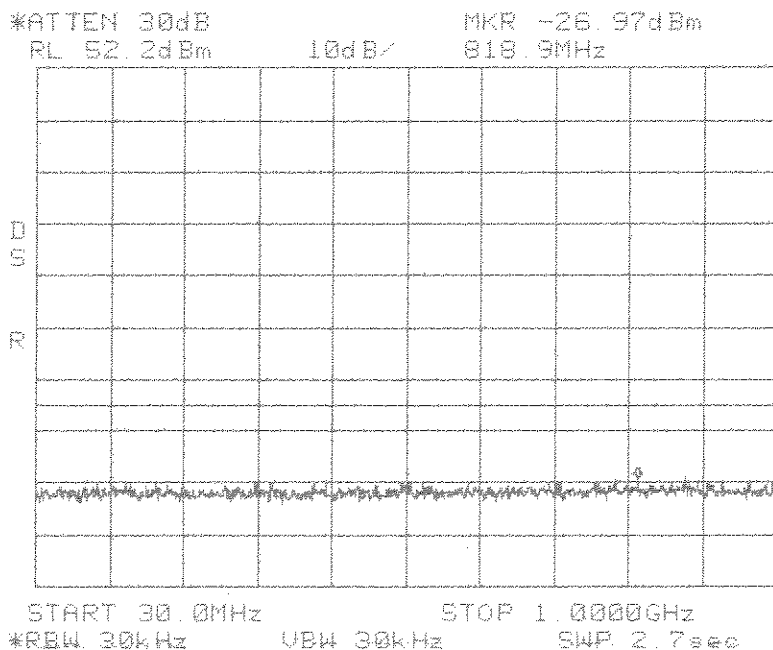


Conducted Emissions
CDMA2000
PCS 1900 MHz
F Band
1xRTT

Center: 1982.5 MHz
Span: 5 MHz
RBW/VBW: 30 kHz



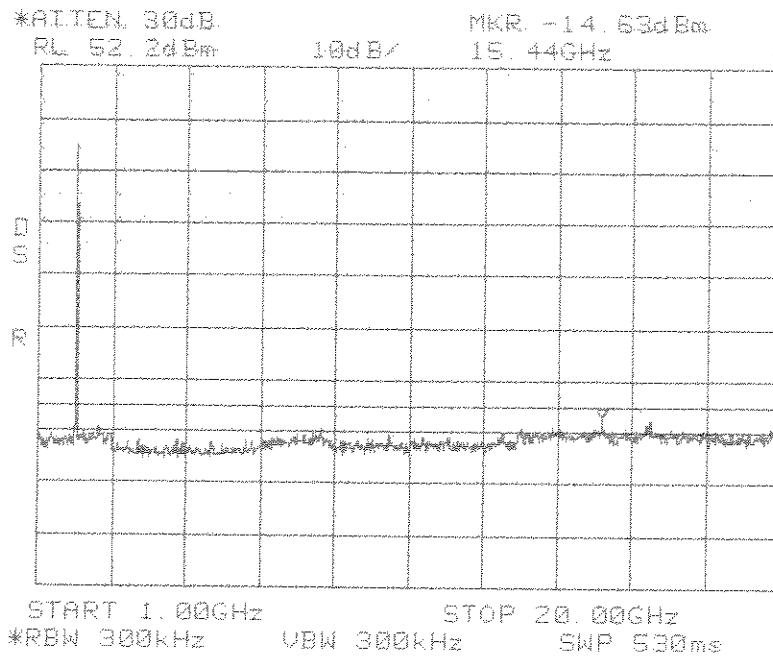
Conducted Emissions
GSM
PCS 1900 MHz
C Band



Conducted Emissions
GSM
PCS 1900 MHz
C Band

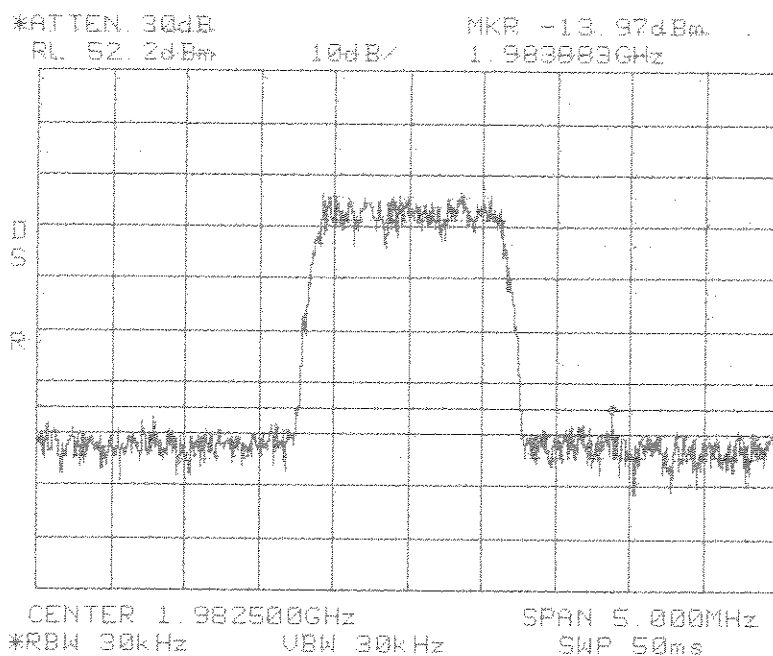
Span: 30 MHz to 1 GHz
RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

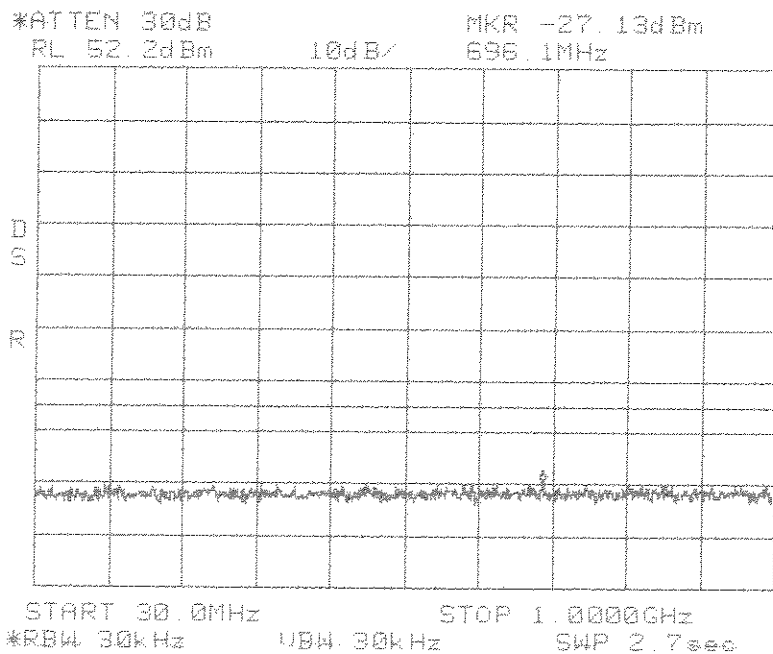


Conducted Emissions
GSM
PCS 1900 MHz
C Band

Center: 1982.5 MHz
Span: 5 MHz
RBW/VBW: 30 kHz



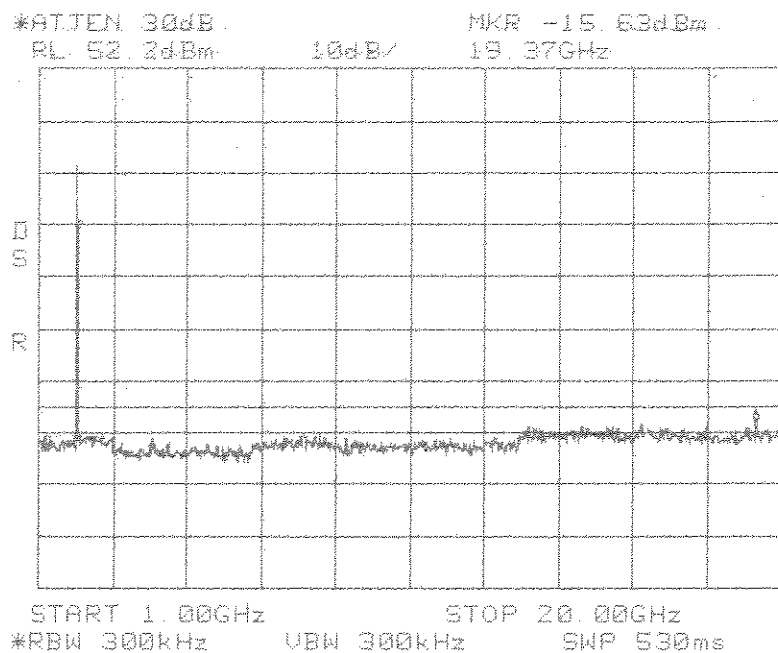
Conducted Emissions
CDMA
PCS 1900 MHz
C Band



Conducted Emissions
CDMA
PCS 1900 MHz
C Band

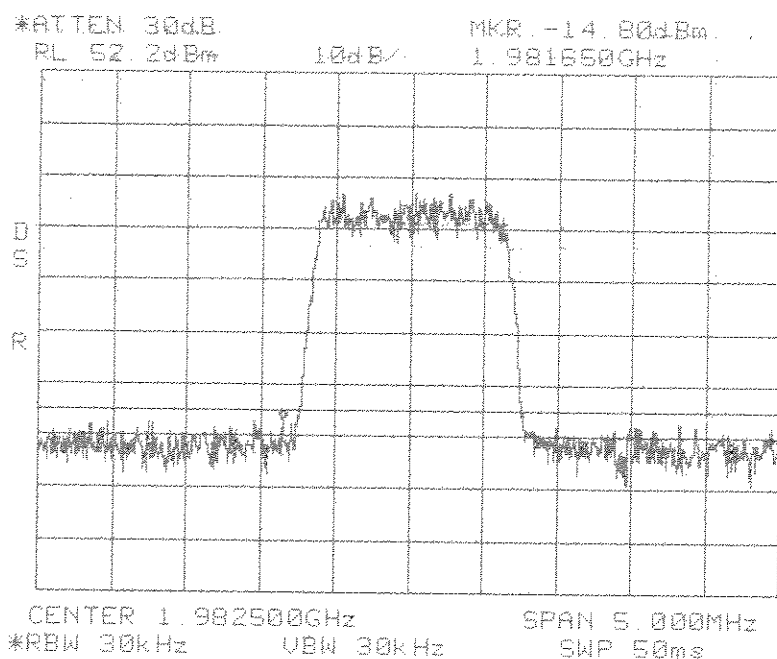
Span: 30 MHz to 1 GHz
RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

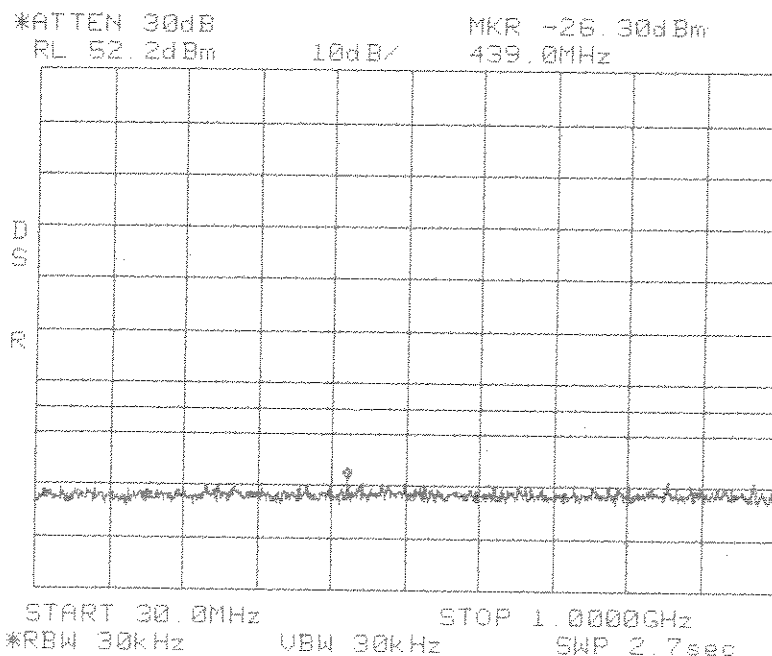


Conducted Emissions
CDMA
PCS 1900 MHz
C Band

Center: 1982.5 MHz
Span: 5 MHz
RBW/VBW: 30 kHz



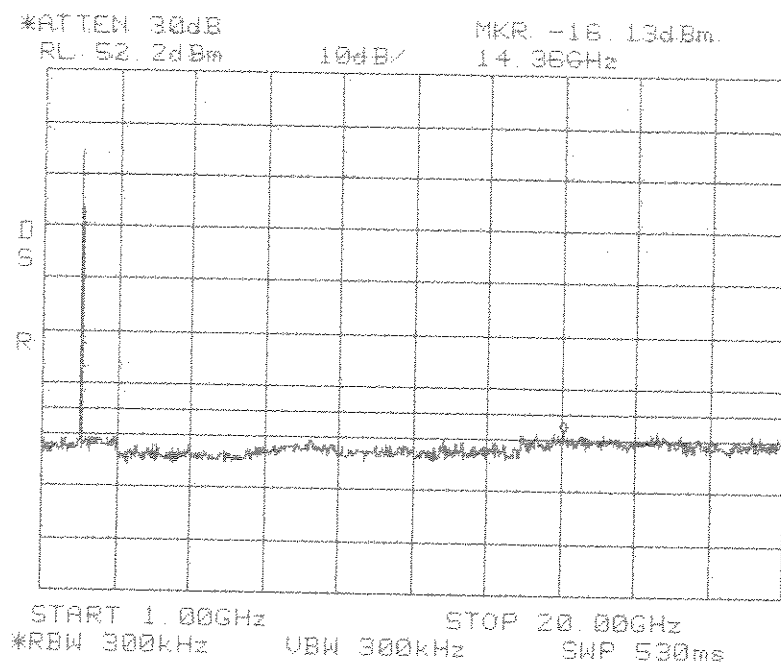
Conducted Emissions
CDMA2000
PCS 1900 MHz
C Band
1xRTT



Conducted Emissions
CDMA2000
PCS 1900 MHz
C Band
1xRTT

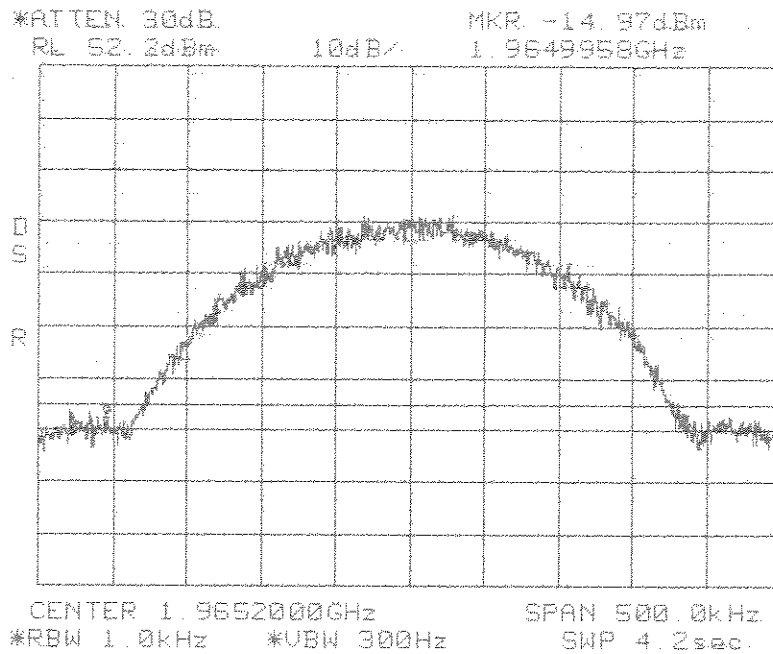
Span: 30 MHz to 1 GHz
RBW/VBW: 30 kHz

Span: 1 GHz to 20 GHz
RBW/VBW: 300 kHz

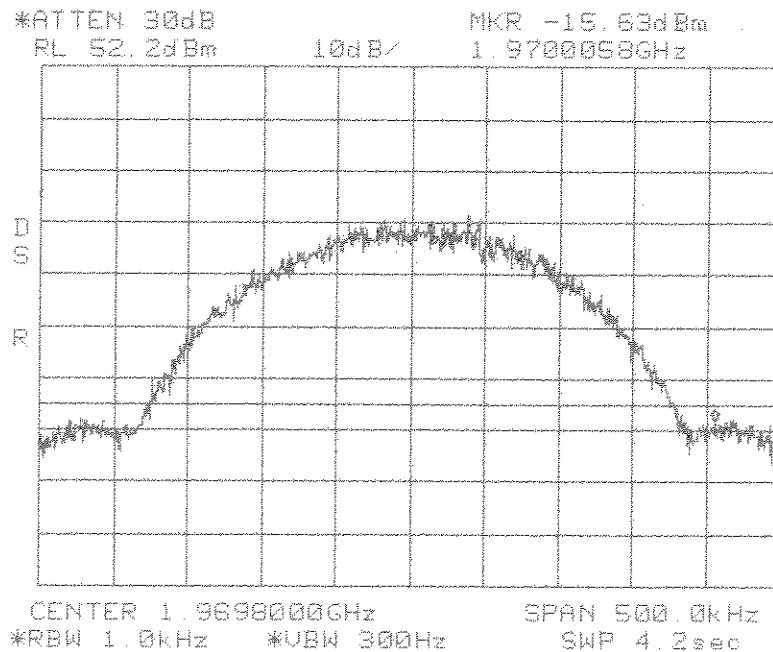


Conducted Emissions
CDMA2000
PCS 1900 MHz
C Band
1xRTT

Center: 1965.2 MHz
Span: 500 kHz
RBW/VBW: 1 kHz / 300 Hz



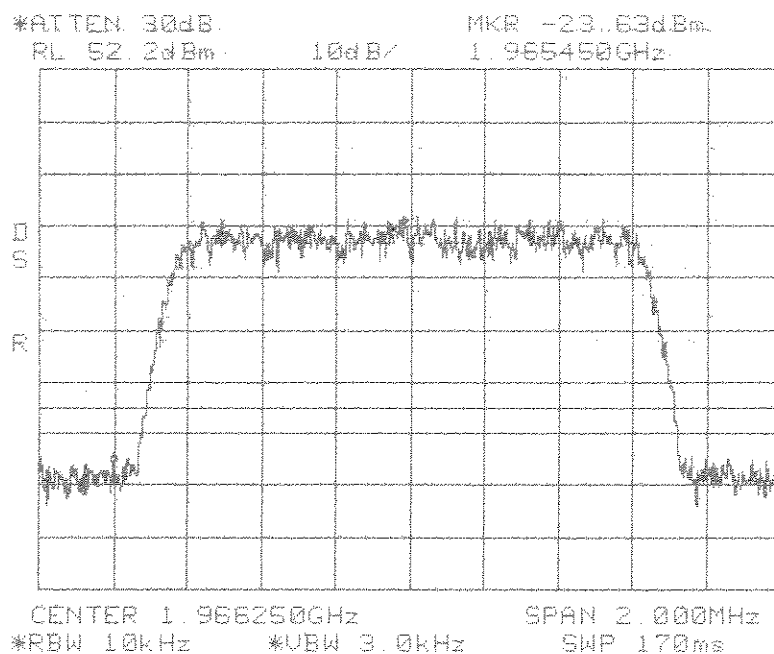
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
E Band**



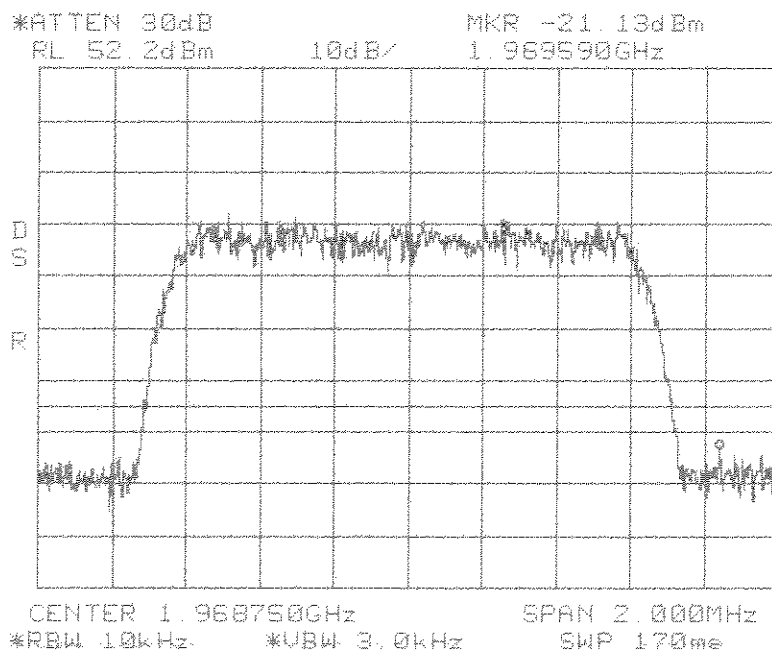
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
E Band**

Center: 1969.8 MHz
Span: 500 kHz
RBW/VBW: 1 kHz / 300 Hz

Center: 1966.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



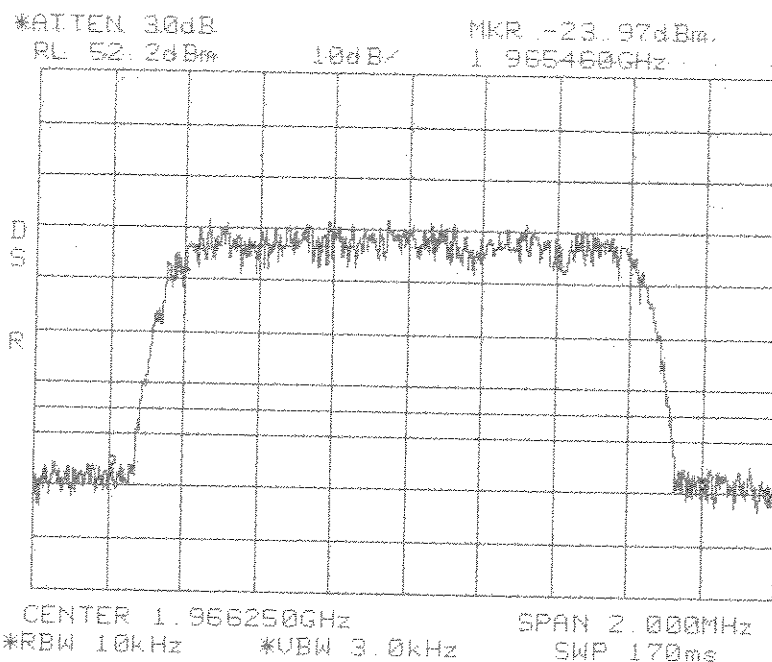
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
E Band**



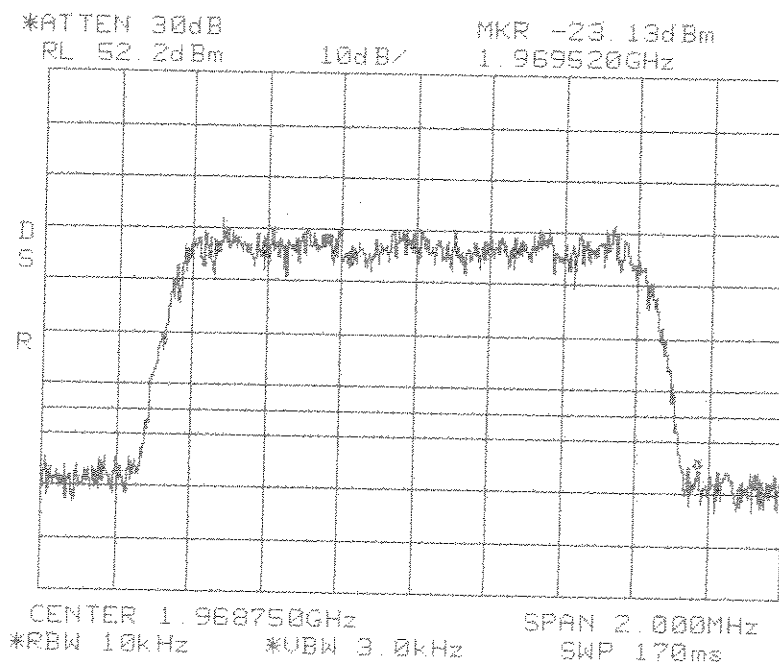
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
E Band**

Center: 1968.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1966.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



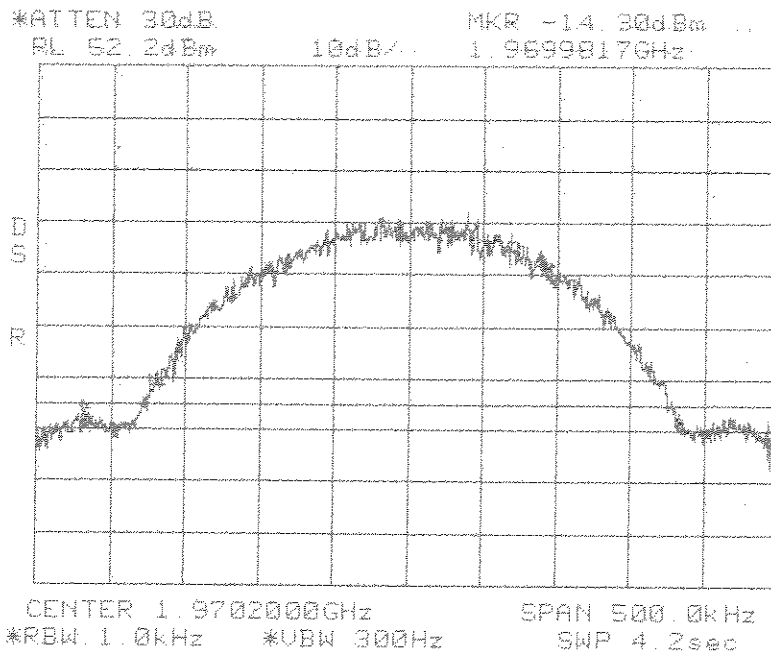
Conducted Emissions
Band Edge
CDMA2000
PCS 1900 MHz
E Band
1xRTT



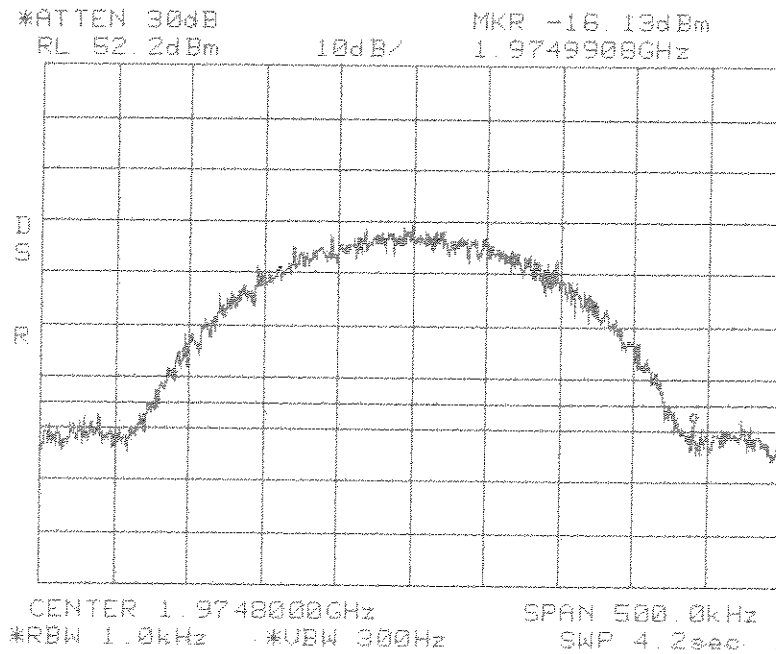
Conducted Emissions
Band Edge
CDMA2000
PCS 1900 MHz
E Band
1xRTT

Center: 1968.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1970.2 MHz
Span: 500 kHz
RBW/VBW: 1 kHz / 300 Hz



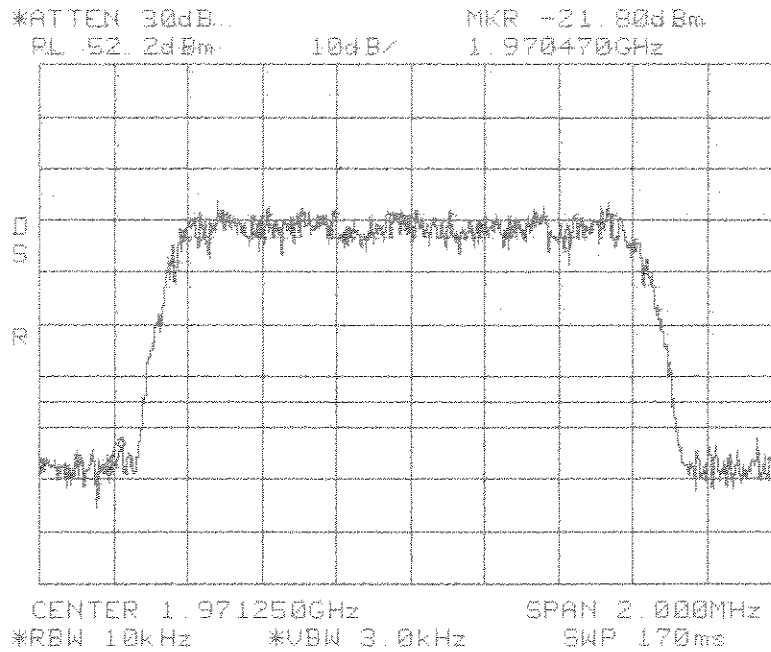
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
F Band**



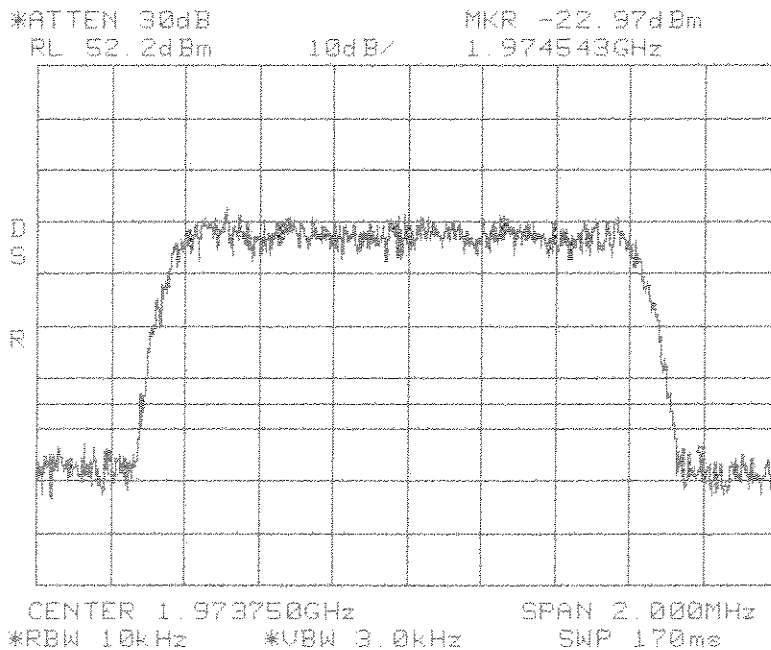
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
F Band**

Center: 1974.8 MHz
Span: 500 kHz
RBW/VBW: 1 kHz / 300 Hz

Center: 1971.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



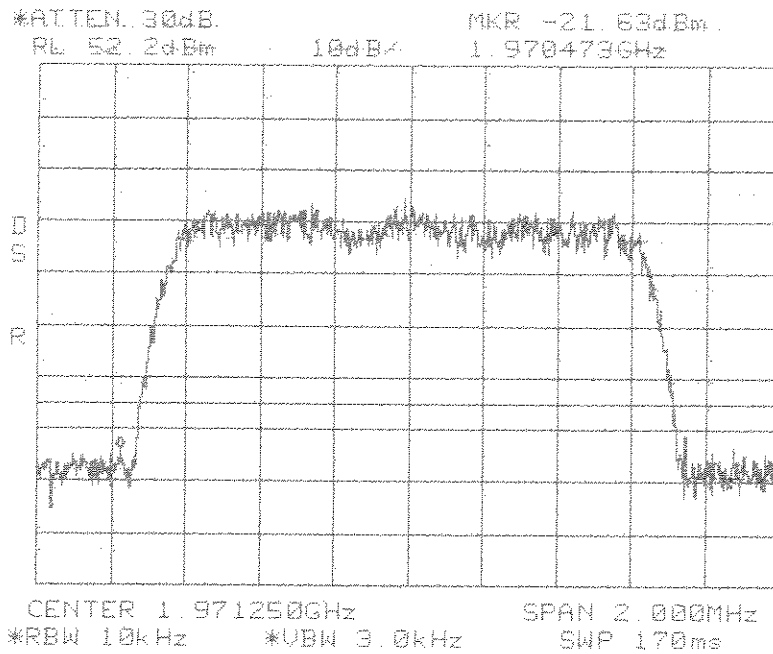
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
F Band**



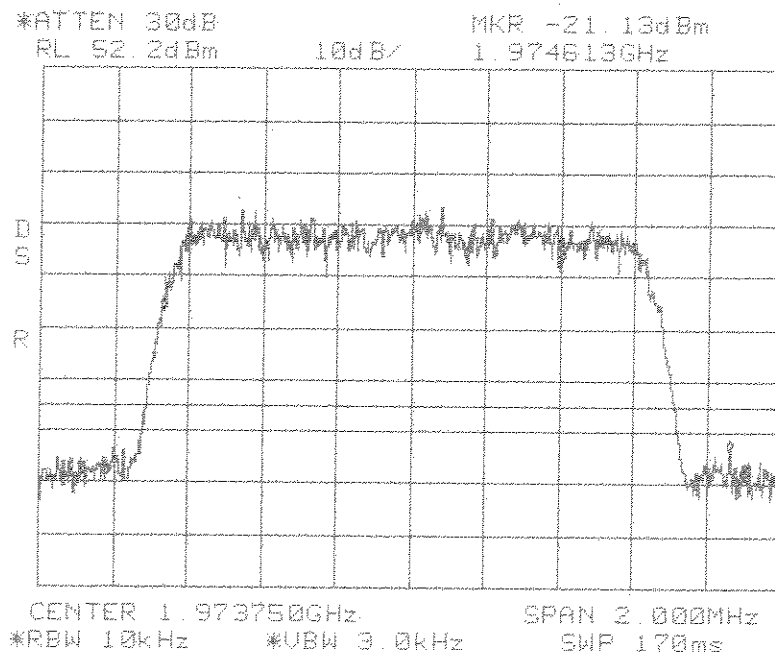
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
F Band**

Center: 1973.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1971.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



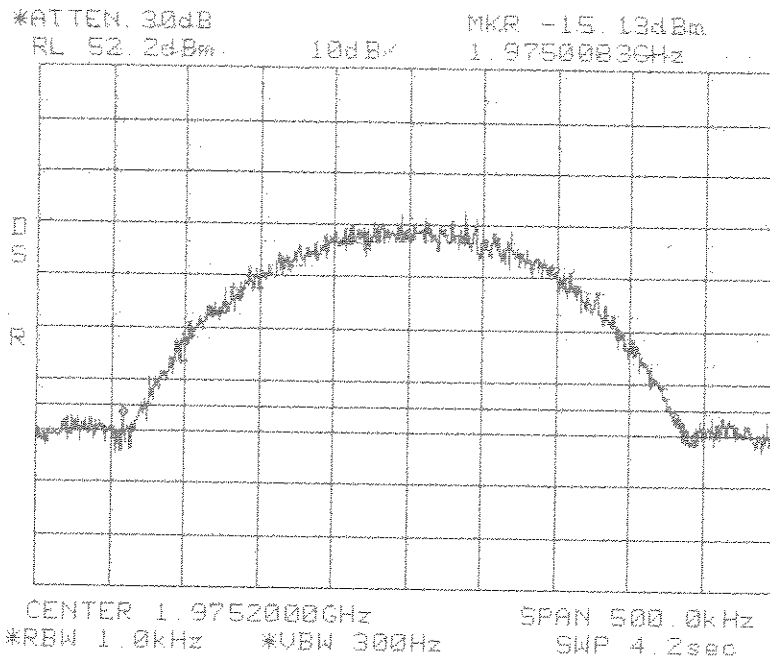
Conducted Emissions
Band Edge
CDMA2000
PCS 1900 MHz
F Band
1xRTT



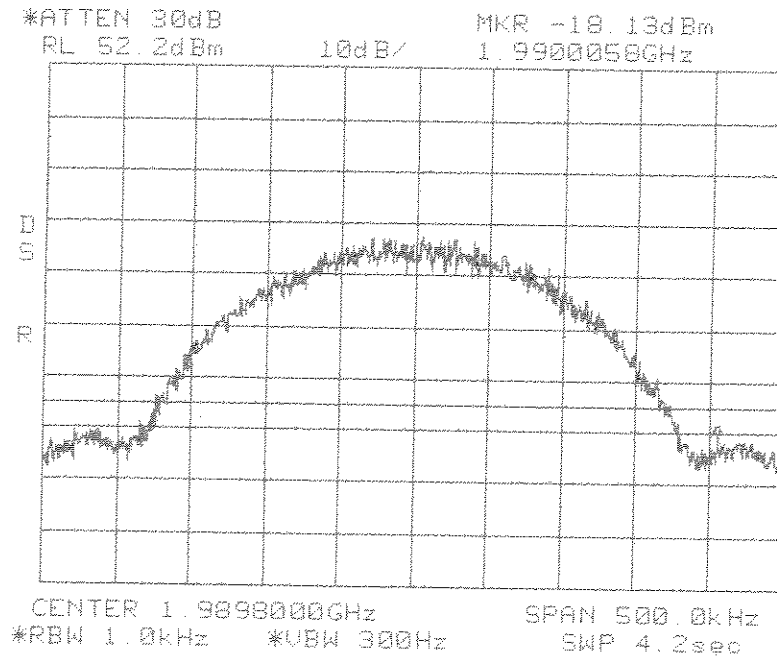
Conducted Emissions
Band Edge
CDMA2000
PCS 1900 MHz
F Band
1xRTT

Center: 1973.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1975.2 MHz
Span: 500 kHz
RBW/VBW: 1 kHz / 300 Hz



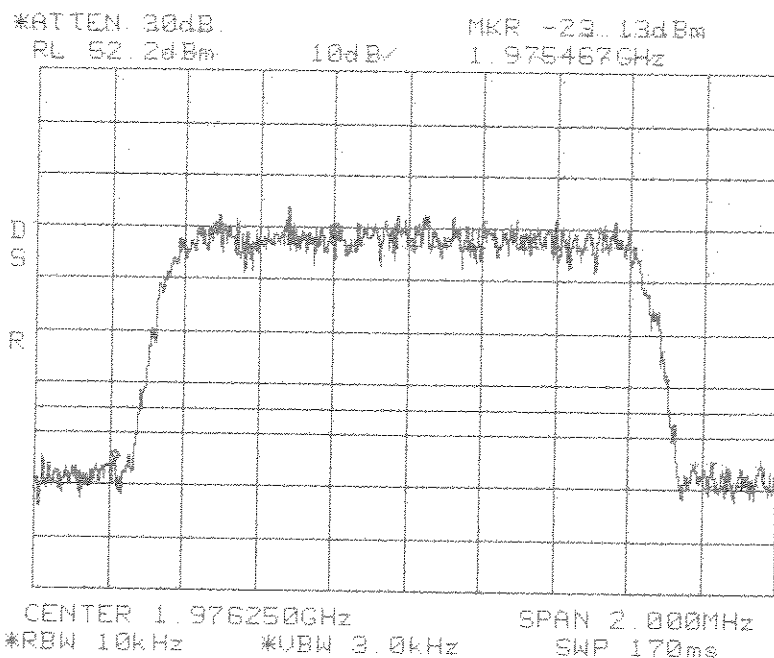
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
C Band**



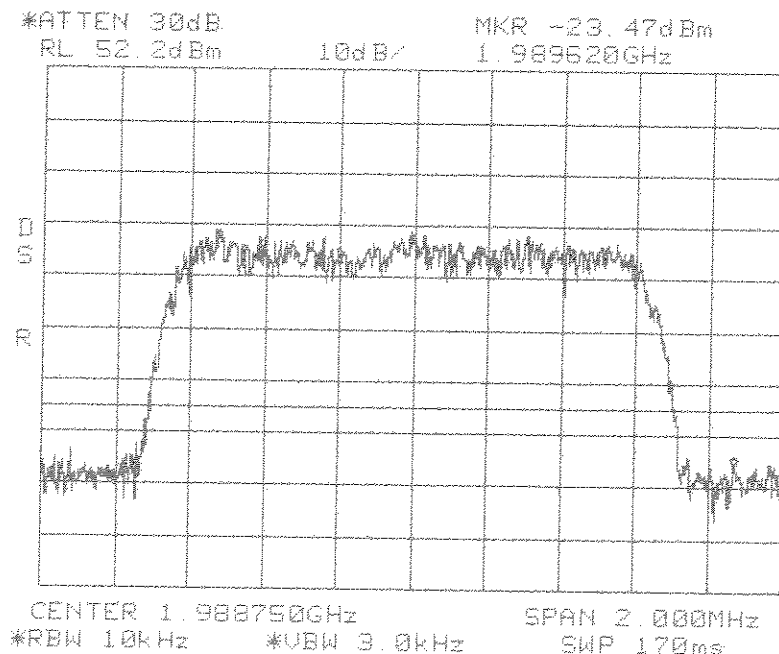
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
C Band**

Center: 1989.8 MHz
Span: 500 kHz
RBW/VBW: 1 kHz / 300 Hz

Center: 1976.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



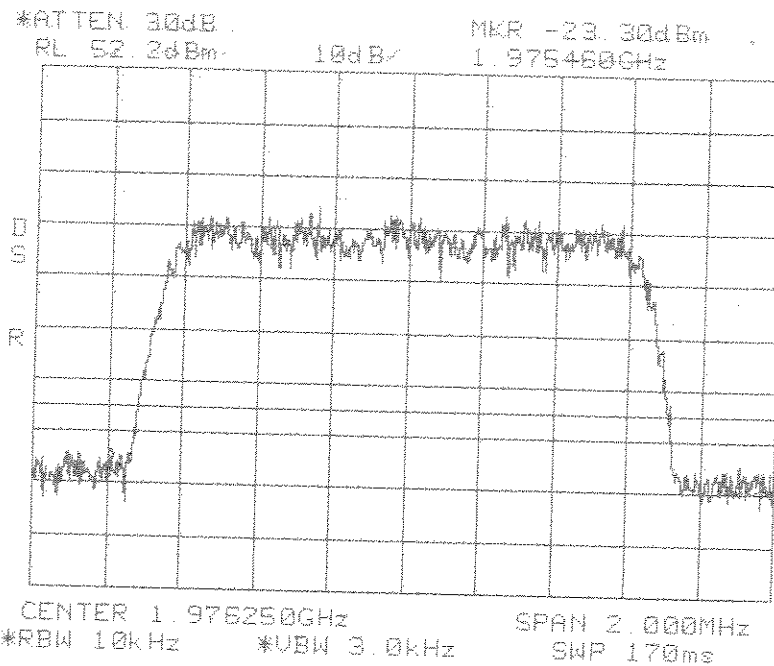
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
C Band**



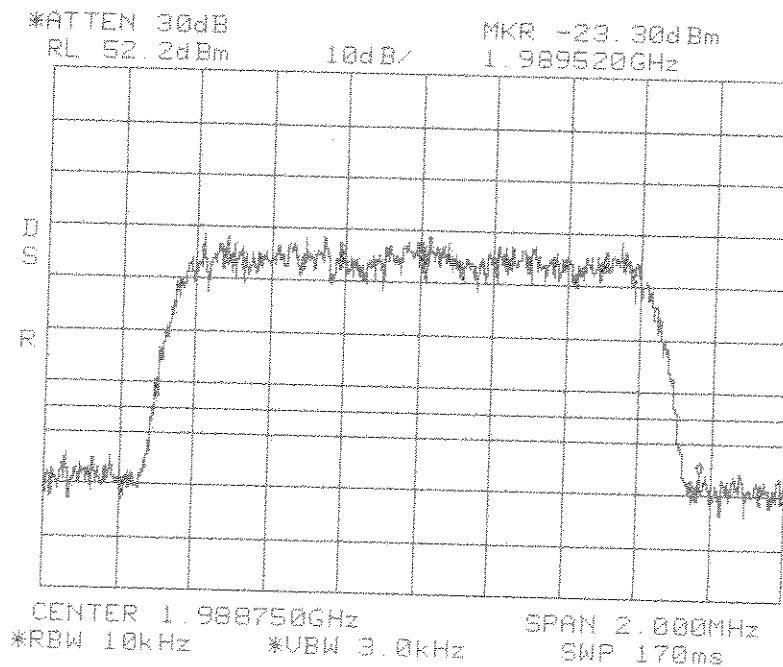
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
C Band**

Center: 1988.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1976.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



Conducted Emissions
Band Edge
CDMA2000
PCS 1900 MHz
C Band
1xRTT



Conducted Emissions
Band Edge
CDMA2000
PCS 1900 MHz
C Band
1xRTT

Center: 1988.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Equivalent Isotropically Radiated Power (EIRP) Substitution

Company: ADC Inc.
EUT: DGVL461110SYS
Date: 11/10/05
Tested By: Joe Sausen

SUBSTITUTION PERFORMED

Plug in freq, final dBuV/m, Matching Sig gen level, and cable loss

(if using antenna other than dipole also enter ant. Gain) - final matching dBm will automatically be calculated in column F. (Final dBm = Sig gen level (dBm) - Cable loss + Ant. Gain)

Schwarzbeck dipole antenna gain : 2.15dBi -10dB + 1.64dB = -6.21

2.15dBi theoretical gain of a dipole, 10dB internal attenuator, 1.64dB correction for 73 / 50 ohm balun

		Matches		Dipole	Matches
Freq. (MHz)	Final (dBuV/m)	Sig Gen Level (dBm)	Cable Loss (dB)	Ant. Gain (dB)	Final (dBm)
426	68.8	-31.3	1.6	-6.21	-39.11

SUBSTITUTION EXTRAPOLATED TO OTHER SPURIOUS EMISSIONS

Enter any more spurious frequencies and final dBuV/m. Corresponding final power levels will automatically be calculated.

Freq. MHz	Final dBuV/m	Correction Factor	Final dBm	Final uW
426	68.8	107.91	-39.11	0.122744
1990	58.14	107.91	-49.77	0.010544
1965	57.63	107.91	-50.28	0.009376
1373	50.39	107.91	-57.52	0.001770
2446	50.3	107.91	-57.61	0.001734

RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 1 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
TX setting = 1965 MHz:						
30.144 MHz	53.0 Qp	0.42 / 20.97 / 27.4 / 0.0	47.0	V / 1.00 / 0	-35.23	n/a
31.446 MHz	53.85 Qp	0.43 / 20.49 / 27.35 / 0.0	47.42	V / 1.00 / 0	-34.81	n/a
64.626 MHz	62.55 Qp	0.69 / 10.21 / 27.0 / 0.0	46.45	V / 1.00 / 0	-35.78	n/a
82.404 MHz	60.7 Qp	0.8 / 7.15 / 26.9 / 0.0	41.75	V / 1.00 / 0	-40.48	n/a
109.044 MHz	54.3 Qp	0.85 / 9.28 / 27.05 / 0.0	37.38	V / 1.00 / 0	-44.85	n/a
125.73 MHz	59.9 Qp	0.95 / 8.33 / 27.05 / 0.0	42.13	V / 1.00 / 0	-40.1	n/a
128.76 MHz	60.65 Qp	0.99 / 8.02 / 27.01 / 0.0	42.65	V / 1.00 / 0	-39.58	n/a
214.569 MHz	62.5 Qp	1.22 / 10.55 / 27.12 / 0.0	47.15	V / 1.00 / 0	-35.08	n/a
233.469 MHz	41.0 Qp	1.3 / 11.07 / 27.2 / 0.0	26.17	V / 1.00 / 0	-56.06	n/a
251.568 MHz	38.65 Qp	1.35 / 11.81 / 27.2 / 0.0	24.61	V / 1.00 / 0	-57.62	n/a
257.481 MHz	46.9 Qp	1.39 / 12.22 / 27.2 / 0.0	33.31	V / 1.00 / 0	-48.92	n/a
281.481 MHz	34.5 Qp	1.5 / 12.46 / 27.41 / 0.0	21.04	V / 1.00 / 0	-61.19	n/a
300.394 MHz	43.8 Qp	1.5 / 13.21 / 27.5 / 0.0	31.01	V / 1.00 / 0	-51.22	n/a
300.688 MHz	51.25 Qp	1.5 / 13.21 / 27.5 / 0.0	38.46	V / 1.00 / 0	-43.77	n/a
319.306 MHz	35.0 Qp	1.5 / 13.59 / 27.5 / 0.0	22.59	V / 1.00 / 0	-59.64	n/a
343.297 MHz	59.45 Qp	1.6 / 14.47 / 27.6 / 0.0	47.92	V / 1.00 / 0	-34.31	n/a
400.915 MHz	51.9 Qp	1.7 / 15.59 / 27.82 / 0.0	41.37	V / 1.00 / 0	-40.86	n/a
434.5 MHz	38.95 Qp	1.74 / 16.21 / 27.9 / 0.0	29.0	V / 1.00 / 0	-53.23	n/a
448.027 MHz	32.25 Qp	1.79 / 16.5 / 27.9 / 0.0	22.64	V / 1.00 / 0	-59.59	n/a
477.95 MHz	31.0 Qp	1.88 / 16.64 / 27.9 / 0.0	21.62	V / 1.00 / 0	-60.61	n/a
501.139 MHz	60.15 Qp	1.9 / 17.61 / 27.95 / 0.0	51.72	V / 1.00 / 0	-30.51	n/a
514.936 MHz	51.1 Qp	1.9 / 17.9 / 27.99 / 0.0	42.91	V / 1.00 / 0	-39.32	n/a
557.851 MHz	47.55 Qp	2.0 / 18.14 / 28.1 / 0.0	39.59	V / 1.00 / 0	-42.64	n/a
583.333 MHz	54.2 Qp	2.07 / 18.77 / 28.1 / 0.0	46.93	V / 1.00 / 0	-35.3	n/a
622.057 MHz	48.4 Qp	2.1 / 19.66 / 28.16 / 0.0	42.0	V / 1.00 / 0	-40.23	n/a
643.687 MHz	51.05 Qp	2.12 / 19.5 / 28.18 / 0.0	44.49	V / 1.00 / 0	-37.74	n/a

Tested by: J. C. Sausen / Michael Schultz

Printed

Signature

Reviewed by: Greg Jakubowski

Signature

RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 2 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
662.617 MHz	27.75 Qp	2.2 / 19.43 / 28.05 / 0.0	21.32	V / 1.00 / 0	-60.91	n/a
666.673 MHz	55.2 Qp	2.22 / 19.47 / 28.03 / 0.0	48.86	V / 1.00 / 0	-33.37	n/a
686.605 MHz	39.85 Qp	2.3 / 19.8 / 27.9 / 0.0	34.05	V / 1.00 / 0	-48.18	n/a
732.205 MHz	29.0 Qp	2.3 / 20.97 / 27.99 / 0.0	24.27	V / 1.00 / 0	-57.96	n/a
869.0 MHz	29.25 Qp	2.54 / 21.9 / 27.72 / 0.0	25.97	V / 1.00 / 0	-56.26	n/a
880.0 MHz	30.85 Qp	2.56 / 21.9 / 27.68 / 0.0	27.63	V / 1.00 / 0	-54.6	n/a
894.0 MHz	30.85 Qp	2.58 / 22.08 / 27.64 / 0.0	27.88	V / 1.00 / 0	-54.35	n/a
901.154 MHz	53.55 Qp	2.59 / 22.22 / 27.61 / 0.0	50.75	V / 1.00 / 0	-31.48	n/a
944.078 MHz	44.15 Qp	2.66 / 22.6 / 27.6 / 0.0	41.81	V / 1.00 / 0	-40.42	n/a
955.9 MHz	27.45 Qp	2.68 / 22.6 / 27.6 / 0.0	25.13	V / 1.00 / 0	-57.1	n/a
986.99 MHz	32.85 Qp	2.72 / 22.73 / 27.58 / 0.0	30.73	V / 1.00 / 0	-51.5	n/a
501 MHz maxed:						
501.139 MHz	62.7 Qp	1.9 / 17.61 / 27.95 / 0.0	54.27	V / 1.73 / 0	-27.96	n/a
64.626 MHz	67.45 Qp	0.69 / 10.21 / 27.0 / 0.0	51.35	V / 1.73 / 0	-30.88	n/a
257.481 MHz	55.5 Qp	1.39 / 12.22 / 27.2 / 0.0	41.91	V / 1.73 / 0	-40.32	n/a
300.394 MHz	57.7 Qp	1.5 / 13.21 / 27.5 / 0.0	44.91	V / 1.73 / 0	-37.32	n/a
300.688 MHz	55.6 Qp	1.5 / 13.21 / 27.5 / 0.0	42.81	V / 1.73 / 0	-39.42	n/a
400.915 MHz	54.4 Qp	1.7 / 15.59 / 27.82 / 0.0	43.87	V / 1.73 / 0	-38.36	n/a
557.851 MHz	53.3 Qp	2.0 / 18.14 / 28.1 / 0.0	45.34	V / 1.73 / 0	-36.89	n/a
686.605 MHz	43.75 Qp	2.3 / 19.8 / 27.9 / 0.0	37.95	V / 1.73 / 0	-44.28	n/a
732.205 MHz	38.1 Qp	2.3 / 20.97 / 27.99 / 0.0	33.37	V / 1.73 / 0	-48.86	n/a
858.26 MHz	42.8 Qp	2.52 / 21.9 / 27.75 / 0.0	39.47	V / 1.73 / 0	-42.76	n/a
902.066 MHz	44.85 Qp	2.6 / 22.24 / 27.61 / 0.0	42.08	V / 1.73 / 0	-40.15	n/a
109.044 MHz	57.45 Qp	0.85 / 9.28 / 27.05 / 0.0	40.53	H / 1.73 / 0	-41.7	n/a
400.915 MHz	60.85 Qp	1.7 / 15.59 / 27.82 / 0.0	50.32	H / 1.73 / 0	-31.91	n/a
686.605 MHz	48.05 Qp	2.3 / 19.8 / 27.9 / 0.0	42.25	H / 1.73 / 0	-39.98	n/a

Tested by: J. C. Sausen / Michael Schultz
Printed

Michael Schultz

Signature

Reviewed by: Greg Jakubowski

Greg Jakubowski

Signature

RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 3 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
986.99 MHz	48.4 Qp	2.72 / 22.73 / 27.58 / 0.0	46.28	H / 1.73 / 0	-35.95	n/a
400.9 MHz maxed:						
400.915 MHz	62.15 Qp	1.7 / 15.59 / 27.82 / 0.0	51.62	H / 1.54 / 0	-30.61	n/a
128.76 MHz	62.0 Qp	0.99 / 8.02 / 27.01 / 0.0	44.0	H / 1.54 / 0	-38.23	n/a
257.481 MHz	59.75 Qp	1.39 / 12.22 / 27.2 / 0.0	46.16	H / 1.54 / 0	-36.07	n/a
557.851 MHz	55.6 Qp	2.0 / 18.14 / 28.1 / 0.0	47.64	H / 1.54 / 0	-34.59	n/a
TX setting = 1977.5MHz						
300.394 MHz	59.1 Qp	1.5 / 13.21 / 27.5 / 0.0	46.31	H / 1.54 / 0	-35.92	n/a
889.875 MHz	26.65 Qp	2.57 / 22.0 / 27.65 / 0.0	23.57	H / 1.54 / 0	-58.66	n/a
30.144 MHz	53.85 Qp	0.42 / 20.97 / 27.4 / 0.0	47.85	V / 1.54 / 0	-34.38	n/a
64.626 MHz	70.65 Qp	0.69 / 10.21 / 27.0 / 0.0	54.55	V / 1.54 / 0	-27.68	n/a
214.569 MHz	64.15 Qp	1.22 / 10.55 / 27.12 / 0.0	48.8	V / 1.54 / 0	-33.43	n/a
64 MHz maxed;						
64.626 MHz	70.9 Qp	0.69 / 10.21 / 27.0 / 0.0	54.8	V / 1.40 / 0	-27.43	n/a
TX setting = 1990 MHz						
82.404 MHz	62.5 Qp	0.8 / 7.15 / 26.9 / 0.0	43.55	V / 1.40 / 0	-38.68	n/a
300.688 MHz	57.2 Qp	1.5 / 13.21 / 27.5 / 0.0	44.41	H / 1.40 / 0	-37.82	n/a
64.626 MHz	70.7 Qp	0.69 / 10.21 / 27.0 / 0.0	54.6	V / 1.40 / 0	-27.63	n/a
1.006 GHz	47.4 Pk	2.75 / 24.98 / 48.77 / 0.0	26.36	V / 1.40 / 0	n/a	-55.87
1.011 GHz	50.1 Pk	2.76 / 24.99 / 48.81 / 0.0	29.03	V / 1.40 / 0	n/a	-53.2
1.025 GHz	45.55 Pk	2.78 / 25.0 / 48.92 / 0.0	24.42	V / 1.40 / 0	n/a	-57.81
1.03 GHz	59.8 Pk	2.79 / 25.01 / 48.96 / 0.0	38.64	V / 1.40 / 0	n/a	-43.59
1.033 GHz	46.4 Pk	2.79 / 25.02 / 48.98 / 0.0	25.23	V / 1.40 / 0	n/a	-57.0
1.038 GHz	49.4 Pk	2.8 / 25.02 / 49.02 / 0.0	28.2	V / 1.40 / 0	n/a	-54.03

Tested by: J. C. Sausen / Michael Schultz

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Signature

Reviewed by: Greg Jakubowski

Signature

RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 4 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
1.073 GHz	56.15 Pk	2.84 / 25.07 / 49.28 / 0.0	34.78	V / 1.40 / 0	n/a	-47.45
1.094 GHz	48.8 Pk	2.87 / 25.1 / 49.45 / 0.0	27.32	V / 1.40 / 0	n/a	-54.91
1.116 GHz	55.2 Pk	2.9 / 25.13 / 49.52 / 0.0	33.71	V / 1.40 / 0	n/a	-48.52
1.121 GHz	48.3 Pk	2.91 / 25.13 / 49.53 / 0.0	26.82	V / 1.40 / 0	n/a	-55.41
1.124 GHz	49.75 Pk	2.91 / 25.14 / 49.53 / 0.0	28.27	V / 1.40 / 0	n/a	-53.96
1.156 GHz	56.0 Pk	2.95 / 25.18 / 49.59 / 0.0	34.55	V / 1.40 / 0	n/a	-47.68
1.159 GHz	56.65 Pk	2.96 / 25.18 / 49.59 / 0.0	35.2	V / 1.40 / 0	n/a	-47.03
1.202 GHz	52.35 Pk	3.01 / 25.24 / 49.65 / 0.0	30.95	V / 1.40 / 0	n/a	-51.28
1.223 GHz	48.6 Pk	3.03 / 25.27 / 49.54 / 0.0	27.36	V / 1.40 / 0	n/a	-54.87
1.244 GHz	50.95 Pk	3.06 / 25.3 / 49.43 / 0.0	29.88	V / 1.40 / 0	n/a	-52.35
1.287 GHz	53.95 Pk	3.11 / 25.36 / 49.21 / 0.0	33.21	V / 1.40 / 0	n/a	-49.02
1.33 GHz	56.3 Pk	3.15 / 25.41 / 49.28 / 0.0	35.59	V / 1.40 / 0	n/a	-46.64
1.373 GHz	56.45 Pk	3.2 / 25.47 / 49.48 / 0.0	35.64	V / 1.40 / 0	n/a	-46.59
1.416 GHz	60.0 Pk	3.29 / 25.53 / 49.64 / 0.0	39.17	V / 1.40 / 0	n/a	-43.06
1.459 GHz	50.7 Pk	3.38 / 25.59 / 49.73 / 0.0	29.93	V / 1.40 / 0	n/a	-52.3
1.502 GHz	53.5 Pk	3.43 / 25.65 / 49.81 / 0.0	32.77	V / 1.40 / 0	n/a	-49.46
1.503 GHz	51.6 Pk	3.43 / 25.66 / 49.81 / 0.0	30.88	V / 1.40 / 0	n/a	-51.35
1.545 GHz	57.7 Pk	3.47 / 25.85 / 49.67 / 0.0	37.35	V / 1.40 / 0	n/a	-44.88
1.588 GHz	56.1 Pk	3.51 / 26.06 / 49.53 / 0.0	36.14	V / 1.40 / 0	n/a	-46.09
1.631 GHz	58.2 Pk	3.55 / 26.27 / 49.58 / 0.0	38.44	V / 1.40 / 0	n/a	-43.79
1.674 GHz	58.0 Pk	3.59 / 26.47 / 49.7 / 0.0	38.36	V / 1.40 / 0	n/a	-43.87
1.704 GHz	56.7 Pk	3.62 / 26.62 / 49.76 / 0.0	37.18	V / 1.40 / 0	n/a	-45.05
1.717 GHz	49.5 Pk	3.65 / 26.68 / 49.75 / 0.0	30.07	V / 1.40 / 0	n/a	-52.16
1.737 GHz	49.25 Pk	3.68 / 26.78 / 49.72 / 0.0	29.98	V / 1.40 / 0	n/a	-52.25
1.759 GHz	58.15 Pk	3.72 / 26.88 / 49.69 / 0.0	39.06	V / 1.40 / 0	n/a	-43.17
1.794 GHz	45.6 Pk	3.77 / 27.05 / 49.65 / 0.0	26.78	V / 1.40 / 0	n/a	-55.45
1.802 GHz	53.9 Pk	3.79 / 27.09 / 49.65 / 0.0	35.13	V / 1.40 / 0	n/a	-47.1

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RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 5 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
1.824 GHz	47.75 Pk	3.81 / 27.19 / 49.72 / 0.0	29.03	V / 1.40 / 0	n/a	-53.2
1.843 GHz	48.1 Pk	3.82 / 27.28 / 49.78 / 0.0	29.42	V / 1.40 / 0	n/a	-52.81
1.888 GHz	51.85 Pk	3.86 / 27.5 / 49.93 / 0.0	33.28	V / 1.40 / 0	n/a	-48.95
1.931 GHz	51.5 Pk	3.89 / 27.7 / 49.86 / 0.0	33.24	V / 1.40 / 0	n/a	-48.99
1.974 GHz	53.7 Pk	3.9 / 28.52 / 28.05 / 0.0	58.07	V / 1.40 / 0	n/a	-24.16
1.99 GHz	68.5 Pk	3.9 / 28.8 / 28.07 / 0.0	73.13	V / 1.40 / 0	n/a	-9.1
2.017 GHz	58.3 Pk	3.9 / 28.06 / 49.57 / 0.0	40.68	H / 1.40 / 0	n/a	-41.55
2.103 GHz	49.85 Pk	3.93 / 28.17 / 49.4 / 0.0	32.55	H / 1.40 / 0	n/a	-49.68
2.189 GHz	56.8 Pk	4.05 / 28.28 / 49.42 / 0.0	39.71	H / 1.40 / 0	n/a	-42.52
2.317 GHz	44.05 Pk	4.21 / 28.45 / 49.02 / 0.0	27.69	H / 1.40 / 0	n/a	-54.54
2.446 GHz	49.05 Pk	4.33 / 28.62 / 49.25 / 0.0	32.75	H / 1.40 / 0	n/a	-49.48
2.488 GHz	51.15 Pk	4.36 / 28.68 / 49.1 / 0.0	35.08	H / 1.40 / 0	n/a	-47.15
2.489 GHz	51.05 Pk	4.36 / 28.68 / 49.1 / 0.0	34.99	H / 1.40 / 0	n/a	-47.24
2.532 GHz	48.55 Pk	4.38 / 28.78 / 48.9 / 0.0	32.81	H / 1.40 / 0	n/a	-49.42
2.746 GHz	45.55 Pk	4.5 / 29.36 / 48.26 / 0.0	31.15	H / 1.40 / 0	n/a	-51.08
5.734 GHz	38.5 Pk	6.94 / 34.21 / 45.52 / 0.0	34.13	H / 1.40 / 0	n/a	-48.1
1.974 GHz	63.7 Pk	3.9 / 27.91 / 49.7 / 0.0	45.81	V / 1.30 / 160	n/a	-36.42
3.433 GHz	45.8 Pk	5.19 / 30.97 / 47.31 / 0.0	34.65	V / 1.30 / 160	n/a	-47.58
3.259 GHz	46.45 Pk	4.99 / 30.6 / 47.57 / 0.0	34.48	V / 1.30 / 160	n/a	-47.75
3.218 GHz	46.85 Pk	4.96 / 30.51 / 47.65 / 0.0	34.68	V / 1.30 / 160	n/a	-47.55
3.133 GHz	44.2 Pk	4.88 / 30.33 / 47.23 / 0.0	32.18	V / 1.30 / 160	n/a	-50.05
3.004 GHz	49.1 Pk	4.76 / 30.06 / 48.08 / 0.0	35.84	V / 1.30 / 160	n/a	-46.39
2.918 GHz	49.15 Pk	4.68 / 29.83 / 48.45 / 0.0	35.21	V / 1.30 / 160	n/a	-47.02
2.875 GHz	47.55 Pk	4.63 / 29.71 / 48.46 / 0.0	33.44	V / 1.30 / 160	n/a	-48.79
2.832 GHz	52.75 Pk	4.59 / 29.59 / 48.35 / 0.0	38.58	V / 1.30 / 160	n/a	-43.65
2.746 GHz	53.35 Pk	4.5 / 29.36 / 48.26 / 0.0	38.95	V / 1.30 / 160	n/a	-43.28
2.703 GHz	51.8 Pk	4.48 / 29.24 / 48.25 / 0.0	37.27	V / 1.30 / 160	n/a	-44.96

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Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 6 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
2.698 GHz	50.05 Pk	4.48 / 29.23 / 48.26 / 0.0	35.5	V / 1.30 / 160	n/a	-46.73
2.682 GHz	45.25 Pk	4.47 / 29.19 / 48.31 / 0.0	30.59	V / 1.30 / 160	n/a	-51.64
2.661 GHz	55.55 Pk	4.45 / 29.13 / 48.38 / 0.0	40.76	V / 1.30 / 160	n/a	-41.47
2.532 GHz	57.5 Pk	4.38 / 28.78 / 48.9 / 0.0	41.76	V / 1.30 / 160	n/a	-40.47
2.489 GHz	55.85 Pk	4.36 / 28.68 / 49.1 / 0.0	39.79	V / 1.30 / 160	n/a	-42.44
2.446 GHz	63.05 Pk	4.33 / 28.62 / 49.25 / 0.0	46.75	V / 1.30 / 160	n/a	-35.48
2.403 GHz	58.5 Pk	4.31 / 28.56 / 49.4 / 0.0	41.97	V / 1.30 / 160	n/a	-40.26
2.317 GHz	51.9 Pk	4.21 / 28.45 / 49.02 / 0.0	35.54	V / 1.30 / 160	n/a	-46.69
2.103 GHz	53.0 Pk	3.93 / 28.17 / 49.4 / 0.0	35.7	V / 1.30 / 160	n/a	-46.53
1.974 GHz	63.6 Pk	3.9 / 27.91 / 49.7 / 0.0	45.71	V / 1.30 / 160	n/a	-36.52
1.931 GHz	62.35 Pk	3.89 / 27.7 / 49.86 / 0.0	44.09	V / 1.30 / 160	n/a	-38.14
1.99 GHz	68.3 Pk	3.9 / 27.99 / 49.65 / 0.0	50.54	V / 1.30 / 160	n/a	-31.69
1.974 GHz	64.3 Pk	3.9 / 27.91 / 49.7 / 0.0	46.41	V / 1.30 / 160	n/a	-35.82
1.931 GHz	62.35 Pk	3.89 / 27.7 / 49.86 / 0.0	44.09	V / 1.30 / 160	n/a	-38.14
2.012 GHz	53.25 Pk	3.9 / 28.05 / 49.59 / 0.0	35.61	V / 1.30 / 160	n/a	-46.62
3.823 GHz	41.45 Pk	5.66 / 31.94 / 46.24 / 0.0	32.8	V / 1.30 / 160	n/a	-49.43
3.952 GHz	39.5 Pk	5.8 / 32.26 / 46.25 / 0.0	31.31	V / 1.30 / 160	n/a	-50.92
4.291 GHz	44.4 Pk	6.1 / 32.33 / 45.93 / 0.0	36.9	V / 1.30 / 160	n/a	-45.33
4.334 GHz	43.25 Pk	6.1 / 32.32 / 45.88 / 0.0	35.79	V / 1.30 / 160	n/a	-46.44
5.734 GHz	37.7 Pk	6.94 / 34.21 / 45.52 / 0.0	33.33	V / 1.30 / 160	n/a	-48.9
1.033 GHz	52.45 Pk	2.79 / 25.02 / 48.98 / 0.0	31.28	V / 1.30 / 270	n/a	-50.95
1.116 GHz	60.2 Pk	2.9 / 25.13 / 49.52 / 0.0	38.71	V / 1.30 / 270	n/a	-43.52
1.121 GHz	52.45 Pk	2.91 / 25.13 / 49.53 / 0.0	30.97	V / 1.30 / 270	n/a	-51.26
1.159 GHz	60.15 Pk	2.96 / 25.18 / 49.59 / 0.0	38.7	V / 1.30 / 270	n/a	-43.53
1.202 GHz	63.1 Pk	3.01 / 25.24 / 49.65 / 0.0	41.7	V / 1.30 / 270	n/a	-40.53
1.244 GHz	60.05 Pk	3.06 / 25.3 / 49.43 / 0.0	38.98	V / 1.30 / 270	n/a	-43.25
1.287 GHz	59.7 Pk	3.11 / 25.36 / 49.21 / 0.0	38.96	V / 1.30 / 270	n/a	-43.27

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Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 7 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
1.373 GHz	60.45 Pk	3.2 / 25.47 / 49.48 / 0.0	39.64	V / 1.30 / 270	n/a	-42.59
1.459 GHz	60.5 Pk	3.38 / 25.59 / 49.73 / 0.0	39.73	V / 1.30 / 270	n/a	-42.5
1.717 GHz	55.95 Pk	3.65 / 26.68 / 49.75 / 0.0	36.52	V / 1.30 / 270	n/a	-45.71
1.843 GHz	52.55 Pk	3.82 / 27.28 / 49.78 / 0.0	33.87	V / 1.30 / 270	n/a	-48.36
Maximized 1.116 GHz TX setting = 1990 MHz						
1.116 GHz	68.35 Pk	2.9 / 25.13 / 49.52 / 0.0	46.86	V / 1.30 / 195	n/a	-35.37
1.121 GHz	58.2 Pk	2.91 / 25.13 / 49.53 / 0.0	36.72	V / 1.30 / 195	n/a	-45.51
1.124 GHz	56.15 Pk	2.91 / 25.14 / 49.53 / 0.0	34.67	V / 1.30 / 195	n/a	-47.56
1.156 GHz	60.05 Pk	2.95 / 25.18 / 49.59 / 0.0	38.6	V / 1.30 / 195	n/a	-43.63
1.159 GHz	65.25 Pk	2.96 / 25.18 / 49.59 / 0.0	43.8	V / 1.30 / 195	n/a	-38.43
1.202 GHz	70.8 Pk	3.01 / 25.24 / 49.65 / 0.0	49.4	V / 1.30 / 195	n/a	-32.83
1.244 GHz	60.8 Pk	3.06 / 25.3 / 49.43 / 0.0	39.73	V / 1.30 / 195	n/a	-42.5
1.287 GHz	68.05 Pk	3.11 / 25.36 / 49.21 / 0.0	47.31	V / 1.30 / 195	n/a	-34.92
1.373 GHz	71.85 Pk	3.2 / 25.47 / 49.48 / 0.0	51.04	V / 1.30 / 195	n/a	-31.19
1.459 GHz	58.0 Pk	3.38 / 25.59 / 49.73 / 0.0	37.23	V / 1.30 / 195	n/a	-45.0
1.717 GHz	57.6 Pk	3.65 / 26.68 / 49.75 / 0.0	38.17	V / 1.30 / 195	n/a	-44.06
1.888 GHz	62.9 Pk	3.86 / 27.5 / 49.93 / 0.0	44.33	V / 1.30 / 195	n/a	-37.9
1.931 GHz	58.95 Pk	3.89 / 27.7 / 49.86 / 0.0	40.69	V / 1.30 / 195	n/a	-41.54
1.974 GHz	57.05 Pk	3.9 / 27.91 / 49.7 / 0.0	39.16	V / 1.30 / 195	n/a	-43.07
2.489 GHz	61.2 Pk	4.36 / 28.68 / 49.1 / 0.0	45.14	V / 1.30 / 195	n/a	-37.09
Maximized Vertical frequencies above 1 GHz TX setting = 1990 MHz						
1.202 GHz	72.05 Pk	3.01 / 25.24 / 49.65 / 0.0	50.65	V / 1.30 / 150	n/a	-31.58
1.287 GHz	68.2 Pk	3.11 / 25.36 / 49.21 / 0.0	47.46	V / 1.30 / 195	n/a	-34.77
1.373 GHz	71.15 Pk	3.2 / 25.47 / 49.48 / 0.0	50.34	V / 1.30 / 195	n/a	-31.89

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Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 8 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
1.025 GHz	55.2 Pk	2.78 / 25.0 / 48.92 / 0.0	34.07	H / 1.30 / 195	n/a	-48.16
1.033 GHz	61.45 Pk	2.79 / 25.02 / 48.98 / 0.0	40.28	H / 1.30 / 195	n/a	-41.95
1.038 GHz	58.45 Pk	2.8 / 25.02 / 49.02 / 0.0	37.25	H / 1.30 / 195	n/a	-44.98
1.073 GHz	61.15 Pk	2.84 / 25.07 / 49.28 / 0.0	39.78	H / 1.30 / 195	n/a	-42.45
1.116 GHz	66.15 Pk	2.9 / 25.13 / 49.52 / 0.0	44.66	H / 1.30 / 195	n/a	-37.57
1.121 GHz	56.1 Pk	2.91 / 25.13 / 49.53 / 0.0	34.62	H / 1.30 / 195	n/a	-47.61
1.156 GHz	61.2 Pk	2.95 / 25.18 / 49.59 / 0.0	39.75	H / 1.30 / 195	n/a	-42.48
1.159 GHz	66.6 Pk	2.96 / 25.18 / 49.59 / 0.0	45.15	H / 1.30 / 195	n/a	-37.08
1.202 GHz	68.3 Pk	3.01 / 25.24 / 49.65 / 0.0	46.9	H / 1.30 / 195	n/a	-35.33
1.244 GHz	60.85 Pk	3.06 / 25.3 / 49.43 / 0.0	39.78	H / 1.30 / 195	n/a	-42.45
1.287 GHz	62.85 Pk	3.11 / 25.36 / 49.21 / 0.0	42.11	H / 1.30 / 195	n/a	-40.12
1.373 GHz	68.4 Pk	3.2 / 25.47 / 49.48 / 0.0	47.59	H / 1.30 / 195	n/a	-34.64
1.416 GHz	67.3 Pk	3.29 / 25.53 / 49.64 / 0.0	46.47	H / 1.30 / 195	n/a	-35.76
1.459 GHz	57.95 Pk	3.38 / 25.59 / 49.73 / 0.0	37.18	H / 1.30 / 195	n/a	-45.05
1.588 GHz	59.55 Pk	3.51 / 26.06 / 49.53 / 0.0	39.59	H / 1.30 / 195	n/a	-42.64
1.674 GHz	61.3 Pk	3.59 / 26.47 / 49.7 / 0.0	41.66	H / 1.30 / 195	n/a	-40.57
1.717 GHz	59.7 Pk	3.65 / 26.68 / 49.75 / 0.0	40.27	H / 1.30 / 195	n/a	-41.96
1.931 GHz	56.6 Pk	3.89 / 27.7 / 49.86 / 0.0	38.34	H / 1.30 / 195	n/a	-43.89
1.99 GHz	75.9 Pk	3.9 / 27.99 / 49.65 / 0.0	58.14	H / 1.30 / 195	n/a	-24.09
2.446 GHz	65.5 Pk	4.33 / 28.62 / 49.25 / 0.0	49.2	H / 1.30 / 195	n/a	-33.03
2.703 GHz	59.05 Pk	4.48 / 29.24 / 48.25 / 0.0	44.52	H / 1.30 / 195	n/a	-37.71
3.823 GHz	52.15 Pk	5.66 / 31.94 / 46.24 / 0.0	43.5	H / 1.30 / 195	n/a	-38.73
5.734 GHz	48.35 Pk	6.94 / 34.21 / 45.52 / 0.0	43.98	H / 1.30 / 195	n/a	-38.25
Maximized Horizontal frequencies above 1 GHz TX setting = 1990 MHz						
1.416 GHz	68.35 Pk	3.29 / 25.53 / 49.64 / 0.0	47.52	H / 1.25 / 195	n/a	-34.71

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Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 9 of 15

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)	DELTA2 -13 dBm >1GHz (Guideline)
2.446 GHz	66.2 Pk	4.33 / 28.62 / 49.25 / 0.0	49.9	H / 1.22 / 145	n/a	-32.33
TX setting = 1977.5 MHz						
2.446 GHz	65.9 Pk	4.33 / 28.62 / 49.25 / 0.0	49.6	H / 1.22 / 145	n/a	-32.63
1.416 GHz	67.8 Pk	3.29 / 25.53 / 49.64 / 0.0	46.97	H / 1.30 / 195	n/a	-35.26
1.159 GHz	68.0 Pk	2.96 / 25.18 / 49.59 / 0.0	46.55	V / 1.30 / 195	n/a	-35.68
1.202 GHz	71.3 Pk	3.01 / 25.24 / 49.65 / 0.0	49.9	V / 1.30 / 150	n/a	-32.33
1.287 GHz	67.45 Pk	3.11 / 25.36 / 49.21 / 0.0	46.71	V / 1.30 / 195	n/a	-35.52
1.287 GHz	67.0 Pk	3.11 / 25.36 / 49.21 / 0.0	46.26	V / 1.30 / 195	n/a	-35.97
1.373 GHz	70.95 Pk	3.2 / 25.47 / 49.48 / 0.0	50.14	V / 1.30 / 195	n/a	-32.09
1.978 GHz	69.45 Pk	3.9 / 27.93 / 49.69 / 0.0	51.59	V / 1.30 / 195	n/a	-30.64
1.978 GHz	75.65 Pk	3.9 / 27.93 / 49.69 / 0.0	57.79	H / 1.30 / 195	n/a	-24.44
TX setting = 1965 MHz						
1.965 GHz	70.9 Pk	3.9 / 27.87 / 49.74 / 0.0	52.93	V / 1.30 / 195	n/a	-29.3
1.965 GHz	75.6 Pk	3.9 / 27.87 / 49.74 / 0.0	57.63	H / 1.30 / 195	n/a	-24.6
2.446 GHz	66.6 Pk	4.33 / 28.62 / 49.25 / 0.0	50.3	H / 1.30 / 145	n/a	-31.93
1.416 GHz	67.3 Pk	3.29 / 25.53 / 49.64 / 0.0	46.47	H / 1.30 / 195	n/a	-35.76
1.159 GHz	67.7 Pk	2.96 / 25.18 / 49.59 / 0.0	46.25	V / 1.30 / 195	n/a	-35.98
1.202 GHz	69.55 Pk	3.01 / 25.24 / 49.65 / 0.0	48.15	V / 1.30 / 150	n/a	-34.08
1.287 GHz	67.8 Pk	3.11 / 25.36 / 49.21 / 0.0	47.06	V / 1.30 / 195	n/a	-35.17
1.373 GHz	71.2 Pk	3.2 / 25.47 / 49.48 / 0.0	50.39	V / 1.30 / 195	n/a	-31.84
Scan complete 30 - 18000 MHz						

Tested by: J. C. Sausen / Michael Schultz

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Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 10 of 15

Measurement summary for limit1: -13dBm < 1GHz (Guideline) (Qp)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)
64.626 MHz	70.7 Qp	0.69 / 10.21 / 27.0 / 0.0	54.6	V / 1.40 / 0	-27.63
501.139 MHz	62.7 Qp	1.9 / 17.61 / 27.95 / 0.0	54.27	V / 1.73 / 0	-27.96
400.915 MHz	62.15 Qp	1.7 / 15.59 / 27.82 / 0.0	51.62	H / 1.54 / 0	-30.61
901.154 MHz	53.55 Qp	2.59 / 22.22 / 27.61 / 0.0	50.75	V / 1.00 / 0	-31.48
666.673 MHz	55.2 Qp	2.22 / 19.47 / 28.03 / 0.0	48.86	V / 1.00 / 0	-33.37
214.569 MHz	64.15 Qp	1.22 / 10.55 / 27.12 / 0.0	48.8	V / 1.54 / 0	-33.43
343.297 MHz	59.45 Qp	1.6 / 14.47 / 27.6 / 0.0	47.92	V / 1.00 / 0	-34.31
30.144 MHz	53.85 Qp	0.42 / 20.97 / 27.4 / 0.0	47.85	V / 1.54 / 0	-34.38
557.851 MHz	55.6 Qp	2.0 / 18.14 / 28.1 / 0.0	47.64	H / 1.54 / 0	-34.59
31.446 MHz	53.85 Qp	0.43 / 20.49 / 27.35 / 0.0	47.42	V / 1.00 / 0	-34.81
583.333 MHz	54.2 Qp	2.07 / 18.77 / 28.1 / 0.0	46.93	V / 1.00 / 0	-35.3
300.394 MHz	59.1 Qp	1.5 / 13.21 / 27.5 / 0.0	46.31	H / 1.54 / 0	-35.92
986.99 MHz	48.4 Qp	2.72 / 22.73 / 27.58 / 0.0	46.28	H / 1.73 / 0	-35.95
257.481 MHz	59.75 Qp	1.39 / 12.22 / 27.2 / 0.0	46.16	H / 1.54 / 0	-36.07
643.687 MHz	51.05 Qp	2.12 / 19.5 / 28.18 / 0.0	44.49	V / 1.00 / 0	-37.74
300.688 MHz	57.2 Qp	1.5 / 13.21 / 27.5 / 0.0	44.41	H / 1.40 / 0	-37.82
128.76 MHz	62.0 Qp	0.99 / 8.02 / 27.01 / 0.0	44.0	H / 1.54 / 0	-38.23
82.404 MHz	62.5 Qp	0.8 / 7.15 / 26.9 / 0.0	43.55	V / 1.40 / 0	-38.68
514.936 MHz	51.1 Qp	1.9 / 17.9 / 27.99 / 0.0	42.91	V / 1.00 / 0	-39.32
686.605 MHz	48.05 Qp	2.3 / 19.8 / 27.9 / 0.0	42.25	H / 1.73 / 0	-39.98
125.73 MHz	59.9 Qp	0.95 / 8.33 / 27.05 / 0.0	42.13	V / 1.00 / 0	-40.1
902.066 MHz	44.85 Qp	2.6 / 22.24 / 27.61 / 0.0	42.08	V / 1.73 / 0	-40.15
622.057 MHz	48.4 Qp	2.1 / 19.66 / 28.16 / 0.0	42.0	V / 1.00 / 0	-40.23
944.078 MHz	44.15 Qp	2.66 / 22.6 / 27.6 / 0.0	41.81	V / 1.00 / 0	-40.42
109.044 MHz	57.45 Qp	0.85 / 9.28 / 27.05 / 0.0	40.53	H / 1.73 / 0	-41.7
858.26 MHz	42.8 Qp	2.52 / 21.9 / 27.75 / 0.0	39.47	V / 1.73 / 0	-42.76

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RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 11 of 15

Measurement summary for limit1: -13dBm < 1GHz (Guideline) (Qp)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 -13dBm < 1GHz (Guideline)
732.205 MHz	38.1 Qp	2.3 / 20.97 / 27.99 / 0.0	33.37	V / 1.73 / 0	-48.86
434.5 MHz	38.95 Qp	1.74 / 16.21 / 27.9 / 0.0	29.0	V / 1.00 / 0	-53.23
894.0 MHz	30.85 Qp	2.58 / 22.08 / 27.64 / 0.0	27.88	V / 1.00 / 0	-54.35
880.0 MHz	30.85 Qp	2.56 / 21.9 / 27.68 / 0.0	27.63	V / 1.00 / 0	-54.6
233.469 MHz	41.0 Qp	1.3 / 11.07 / 27.2 / 0.0	26.17	V / 1.00 / 0	-56.06
869.0 MHz	29.25 Qp	2.54 / 21.9 / 27.72 / 0.0	25.97	V / 1.00 / 0	-56.26
955.9 MHz	27.45 Qp	2.68 / 22.6 / 27.6 / 0.0	25.13	V / 1.00 / 0	-57.1
251.568 MHz	38.65 Qp	1.35 / 11.81 / 27.2 / 0.0	24.61	V / 1.00 / 0	-57.62
889.875 MHz	26.65 Qp	2.57 / 22.0 / 27.65 / 0.0	23.57	H / 1.54 / 0	-58.66
448.027 MHz	32.25 Qp	1.79 / 16.5 / 27.9 / 0.0	22.64	V / 1.00 / 0	-59.59
319.306 MHz	35.0 Qp	1.5 / 13.59 / 27.5 / 0.0	22.59	V / 1.00 / 0	-59.64
477.95 MHz	31.0 Qp	1.88 / 16.64 / 27.9 / 0.0	21.62	V / 1.00 / 0	-60.61
662.617 MHz	27.75 Qp	2.2 / 19.43 / 28.05 / 0.0	21.32	V / 1.00 / 0	-60.91
281.481 MHz	34.5 Qp	1.5 / 12.46 / 27.41 / 0.0	21.04	V / 1.00 / 0	-61.19

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RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 12 of 15

Measurement summary for limit2: -13 dBm >1GHz (Guideline) (Pk)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 -13 dBm >1GHz (Guideline)
1.99 GHz	75.9 Pk	3.9 / 27.99 / 49.65 / 0.0	58.14	H / 1.30 / 195	-24.09
1.978 GHz	75.65 Pk	3.9 / 27.93 / 49.69 / 0.0	57.79	H / 1.30 / 195	-24.44
1.965 GHz	75.6 Pk	3.9 / 27.87 / 49.74 / 0.0	57.63	H / 1.30 / 195	-24.6
1.373 GHz	71.2 Pk	3.2 / 25.47 / 49.48 / 0.0	50.39	V / 1.30 / 195	-31.84
2.446 GHz	66.6 Pk	4.33 / 28.62 / 49.25 / 0.0	50.3	H / 1.30 / 145	-31.93
1.202 GHz	69.55 Pk	3.01 / 25.24 / 49.65 / 0.0	48.15	V / 1.30 / 150	-34.08
1.287 GHz	67.8 Pk	3.11 / 25.36 / 49.21 / 0.0	47.06	V / 1.30 / 195	-35.17
1.416 GHz	67.3 Pk	3.29 / 25.53 / 49.64 / 0.0	46.47	H / 1.30 / 195	-35.76
1.159 GHz	67.7 Pk	2.96 / 25.18 / 49.59 / 0.0	46.25	V / 1.30 / 195	-35.98
2.489 GHz	61.2 Pk	4.36 / 28.68 / 49.1 / 0.0	45.14	V / 1.30 / 195	-37.09
1.116 GHz	66.15 Pk	2.9 / 25.13 / 49.52 / 0.0	44.66	H / 1.30 / 195	-37.57
2.703 GHz	59.05 Pk	4.48 / 29.24 / 48.25 / 0.0	44.52	H / 1.30 / 195	-37.71
1.888 GHz	62.9 Pk	3.86 / 27.5 / 49.93 / 0.0	44.33	V / 1.30 / 195	-37.9
5.734 GHz	48.35 Pk	6.94 / 34.21 / 45.52 / 0.0	43.98	H / 1.30 / 195	-38.25
3.823 GHz	52.15 Pk	5.66 / 31.94 / 46.24 / 0.0	43.5	H / 1.30 / 195	-38.73
2.403 GHz	58.5 Pk	4.31 / 28.56 / 49.4 / 0.0	41.97	V / 1.30 / 160	-40.26
2.532 GHz	57.5 Pk	4.38 / 28.78 / 48.9 / 0.0	41.76	V / 1.30 / 160	-40.47
1.674 GHz	61.3 Pk	3.59 / 26.47 / 49.7 / 0.0	41.66	H / 1.30 / 195	-40.57
2.661 GHz	55.55 Pk	4.45 / 29.13 / 48.38 / 0.0	40.76	V / 1.30 / 160	-41.47
2.017 GHz	58.3 Pk	3.9 / 28.06 / 49.57 / 0.0	40.68	H / 1.40 / 0	-41.55
1.033 GHz	61.45 Pk	2.79 / 25.02 / 48.98 / 0.0	40.28	H / 1.30 / 195	-41.95
1.717 GHz	59.7 Pk	3.65 / 26.68 / 49.75 / 0.0	40.27	H / 1.30 / 195	-41.96
1.073 GHz	61.15 Pk	2.84 / 25.07 / 49.28 / 0.0	39.78	H / 1.30 / 195	-42.45

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RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 13 of 15

Measurement summary for limit2: -13 dBm >1GHz (Guideline) (Pk)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 -13 dBm >1GHz (Guideline)
1.244 GHz	60.85 Pk	3.06 / 25.3 / 49.43 / 0.0	39.78	H / 1.30 / 195	-42.45
1.156 GHz	61.2 Pk	2.95 / 25.18 / 49.59 / 0.0	39.75	H / 1.30 / 195	-42.48
2.189 GHz	56.8 Pk	4.05 / 28.28 / 49.42 / 0.0	39.71	H / 1.40 / 0	-42.52
1.588 GHz	59.55 Pk	3.51 / 26.06 / 49.53 / 0.0	39.59	H / 1.30 / 195	-42.64
1.974 GHz	57.05 Pk	3.9 / 27.91 / 49.7 / 0.0	39.16	V / 1.30 / 195	-43.07
1.759 GHz	58.15 Pk	3.72 / 26.88 / 49.69 / 0.0	39.06	V / 1.40 / 0	-43.17
2.746 GHz	53.35 Pk	4.5 / 29.36 / 48.26 / 0.0	38.95	V / 1.30 / 160	-43.28
1.03 GHz	59.8 Pk	2.79 / 25.01 / 48.96 / 0.0	38.64	V / 1.40 / 0	-43.59
2.832 GHz	52.75 Pk	4.59 / 29.59 / 48.35 / 0.0	38.58	V / 1.30 / 160	-43.65
1.631 GHz	58.2 Pk	3.55 / 26.27 / 49.58 / 0.0	38.44	V / 1.40 / 0	-43.79
1.931 GHz	56.6 Pk	3.89 / 27.7 / 49.86 / 0.0	38.34	H / 1.30 / 195	-43.89
1.545 GHz	57.7 Pk	3.47 / 25.85 / 49.67 / 0.0	37.35	V / 1.40 / 0	-44.88
1.038 GHz	58.45 Pk	2.8 / 25.02 / 49.02 / 0.0	37.25	H / 1.30 / 195	-44.98
1.459 GHz	57.95 Pk	3.38 / 25.59 / 49.73 / 0.0	37.18	H / 1.30 / 195	-45.05
1.704 GHz	56.7 Pk	3.62 / 26.62 / 49.76 / 0.0	37.18	V / 1.40 / 0	-45.05
4.291 GHz	44.4 Pk	6.1 / 32.33 / 45.93 / 0.0	36.9	V / 1.30 / 160	-45.33
3.004 GHz	49.1 Pk	4.76 / 30.06 / 48.08 / 0.0	35.84	V / 1.30 / 160	-46.39
4.334 GHz	43.25 Pk	6.1 / 32.32 / 45.88 / 0.0	35.79	V / 1.30 / 160	-46.44
2.103 GHz	53.0 Pk	3.93 / 28.17 / 49.4 / 0.0	35.7	V / 1.30 / 160	-46.53
2.012 GHz	53.25 Pk	3.9 / 28.05 / 49.59 / 0.0	35.61	V / 1.30 / 160	-46.62
1.33 GHz	56.3 Pk	3.15 / 25.41 / 49.28 / 0.0	35.59	V / 1.40 / 0	-46.64
2.317 GHz	51.9 Pk	4.21 / 28.45 / 49.02 / 0.0	35.54	V / 1.30 / 160	-46.69
2.698 GHz	50.05 Pk	4.48 / 29.23 / 48.26 / 0.0	35.5	V / 1.30 / 160	-46.73
2.918 GHz	49.15 Pk	4.68 / 29.83 / 48.45 / 0.0	35.21	V / 1.30 / 160	-47.02
1.802 GHz	53.9 Pk	3.79 / 27.09 / 49.65 / 0.0	35.13	V / 1.40 / 0	-47.1
2.488 GHz	51.15 Pk	4.36 / 28.68 / 49.1 / 0.0	35.08	H / 1.40 / 0	-47.15
3.218 GHz	46.85 Pk	4.96 / 30.51 / 47.65 / 0.0	34.68	V / 1.30 / 160	-47.55

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RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat

Page: 14 of 15

Measurement summary for limit2: -13 dBm >1GHz (Guideline) (Pk)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 -13 dBm >1GHz (Guideline)
1.124 GHz	56.15 Pk	2.91 / 25.14 / 49.53 / 0.0	34.67	V / 1.30 / 195	-47.56
3.433 GHz	45.8 Pk	5.19 / 30.97 / 47.31 / 0.0	34.65	V / 1.30 / 160	-47.58
1.121 GHz	56.1 Pk	2.91 / 25.13 / 49.53 / 0.0	34.62	H / 1.30 / 195	-47.61
3.259 GHz	46.45 Pk	4.99 / 30.6 / 47.57 / 0.0	34.48	V / 1.30 / 160	-47.75
1.025 GHz	55.2 Pk	2.78 / 25.0 / 48.92 / 0.0	34.07	H / 1.30 / 195	-48.16
1.843 GHz	52.55 Pk	3.82 / 27.28 / 49.78 / 0.0	33.87	V / 1.30 / 270	-48.36
2.875 GHz	47.55 Pk	4.63 / 29.71 / 48.46 / 0.0	33.44	V / 1.30 / 160	-48.79
1.502 GHz	53.5 Pk	3.43 / 25.65 / 49.81 / 0.0	32.77	V / 1.40 / 0	-49.46
3.133 GHz	44.2 Pk	4.88 / 30.33 / 47.23 / 0.0	32.18	V / 1.30 / 160	-50.05
3.952 GHz	39.5 Pk	5.8 / 32.26 / 46.25 / 0.0	31.31	V / 1.30 / 160	-50.92
1.503 GHz	51.6 Pk	3.43 / 25.66 / 49.81 / 0.0	30.88	V / 1.40 / 0	-51.35
2.682 GHz	45.25 Pk	4.47 / 29.19 / 48.31 / 0.0	30.59	V / 1.30 / 160	-51.64
1.737 GHz	49.25 Pk	3.68 / 26.78 / 49.72 / 0.0	29.98	V / 1.40 / 0	-52.25
1.011 GHz	50.1 Pk	2.76 / 24.99 / 48.81 / 0.0	29.03	V / 1.40 / 0	-53.2
1.824 GHz	47.75 Pk	3.81 / 27.19 / 49.72 / 0.0	29.03	V / 1.40 / 0	-53.2
1.223 GHz	48.6 Pk	3.03 / 25.27 / 49.54 / 0.0	27.36	V / 1.40 / 0	-54.87
1.094 GHz	48.8 Pk	2.87 / 25.1 / 49.45 / 0.0	27.32	V / 1.40 / 0	-54.91
1.794 GHz	45.6 Pk	3.77 / 27.05 / 49.65 / 0.0	26.78	V / 1.40 / 0	-55.45
1.006 GHz	47.4 Pk	2.75 / 24.98 / 48.77 / 0.0	26.36	V / 1.40 / 0	-55.87

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RADIATED EMISSIONS



Test Report #: WC506388 Run 2 Test Area: LTS

EUT Model #: DGVF-05000000XXCRN Date: 12/14/2005

EUT Serial #: na EUT Power: 48 VDC Temperature: 22.0 °C

Test Method: FCC Part 24 Air Pressure: 98.0 kPa

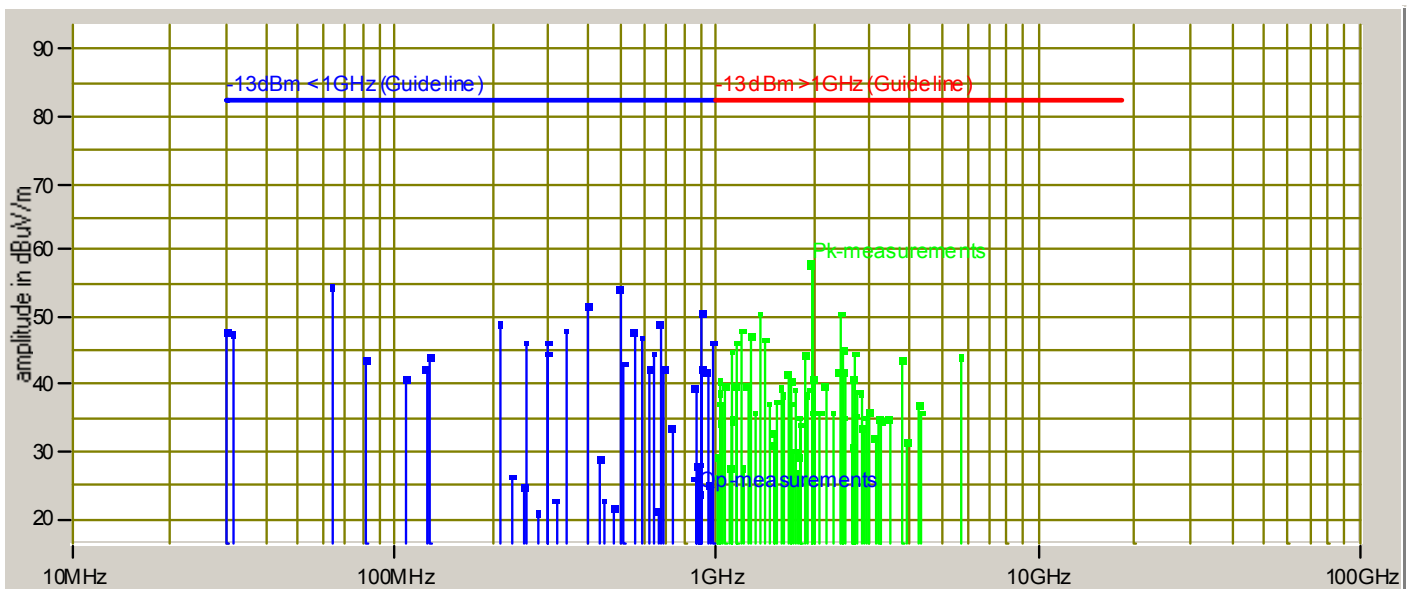
Customer: ADC Telecommunications Rel. Humidity: 22.0 %

EUT Description: Digivance CXD 1900 MHz full band

Notes: 1900 MHz. E, F, & C Bands

Data File Name: 6388.dat Page: 15 of 15

Graph:



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