

# TEST RESULT SUMMARY

## FCC Part 24

MANUFACTURER ADC Inc.

NAME OF EQUIPMENT Digivance® Street Coverage Solution 1900 MHz System

MODEL NUMBERS  
**DGVC-431X0000100SYS**  
**DGVC-441X0000100SYS**  
**DGVC-451X0000100SYS**  
**DGVC-461X0000100SYS**

MANUFACTURER'S ADDRESS P.O. Box 1101  
Minneapolis, MN 55440-1101

TEST REPORT NUMBER WC505741 Rev B

TEST DATES 30 September 2005 (ADC)  
8 November 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: 27 July 2006

Tested By

Technical Writer



Michael Schultz



Greg Jakubowski

Not Transferable

# EMC Emission - TEST REPORT

Test Report File No. : **WC505741 Rev B** Date of issue: 27 July 2006

Model Nos. : **DGVC-431X0000100SYS**  
**DGVC-441X0000100SYS**  
**DGVC-451X0000100SYS**  
**DGVC-461X0000100SYS**

Product Name : Digivance® Street Coverage Solution 1900 MHz System

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) : **WC505741 Rev B**

Total pages including Appendices 176

*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
	176	27 February 2006	Initial Release
A	176	15 May 2006	Revisions include: <ul style="list-style-type: none"> <li>▪ Pages A2-A3, Updated EIRP Test Data</li> </ul>
B	176	27 July 2006	<ul style="list-style-type: none"> <li>▪ Page C2, reference to ANSI C63.4 corrected to EIA/TIA 603</li> <li>▪ Replaced pages A34 &amp; A43. Updated TDMA Band Edge data</li> <li>▪ Replaced page A81 with data using correct 1 MHz RBW</li> </ul>

## DIRECTORY

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**Sign Explanations:**

- not applicable
- applicable

## EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to following regulations:

- |   |   |                                    |
|---|---|------------------------------------|
| <input type="checkbox"/> - EN 50081-1 / 1991      | <input type="checkbox"/> - Group 1                          | <input type="checkbox"/> - Group 2 |
| <input type="checkbox"/> - EN 55011 / 1991        | <input type="checkbox"/> - Class A                          | <input type="checkbox"/> - Class B |
| <input type="checkbox"/> - EN 55013 / 1990        | <input type="checkbox"/> - Household appliances and similar |                                    |
| <input type="checkbox"/> - EN 55014 / 1987        | <input type="checkbox"/> - Portable tools                   |                                    |
|   | <input type="checkbox"/> - Semiconductor devices            |                                    |
| <input type="checkbox"/> - EN 55014 / A2:1990     | <input type="checkbox"/> - Household appliances and similar |                                    |
| <input type="checkbox"/> - EN 55014 / 1993        | <input type="checkbox"/> - Portable tools                   |                                    |
|   | <input type="checkbox"/> - Semiconductor devices            |                                    |
| <input type="checkbox"/> - EN 55015 / 1987        |   |                                    |
| <input type="checkbox"/> - EN 55015 / A1:1990     |   |                                    |
| <input type="checkbox"/> - EN 55015 / 1993        | <input type="checkbox"/> - Class A                          | <input type="checkbox"/> - Class B |
| <input type="checkbox"/> - EN 55022 / 1987        | <input type="checkbox"/> - Class A                          | <input type="checkbox"/> - Class B |
| <input type="checkbox"/> - EN 55022 / 1991        |   |                                    |
| <input type="checkbox"/> - BS                     |   |                                    |
| <input type="checkbox"/> - VCCI                   | <input type="checkbox"/> - Class A                          | <input type="checkbox"/> - Class B |
| <input type="checkbox"/> - FCC Part 15 Subpart B  | <input type="checkbox"/> - Class A                          | <input type="checkbox"/> - Class B |
| <input type="checkbox"/> - FCC Part 15 Subpart C  |   |                                    |
| <input checked="" type="checkbox"/> - FCC Part 24 |   |                                    |
| <input type="checkbox"/> - CISPR 11 (1990)        | <input type="checkbox"/> - Group 1                          | <input type="checkbox"/> - Group 2 |
|   | <input type="checkbox"/> - Class A                          | <input type="checkbox"/> - Class B |
| <input type="checkbox"/> - CISPR 22 (1993)        | <input type="checkbox"/> - Class A                          | <input type="checkbox"/> - Class B |
| <input type="checkbox"/> - IC RSS-Gen Issue 1     |   |                                    |
| <input type="checkbox"/> - 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 12.3 dB at 1977.5 MHz (TDMA Band EFC)

### 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 – A7

## 24.238 Emission limitations for Broadband PCS equipment

### Test summary

The requirements are: ■ - MET □ - NOT MET

Out of band emissions were less than  $-13\text{dBm}$  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 A8 – A20

Conducted Emissions, pages A21 – A45

Radiated emissions, pages A46 – A76

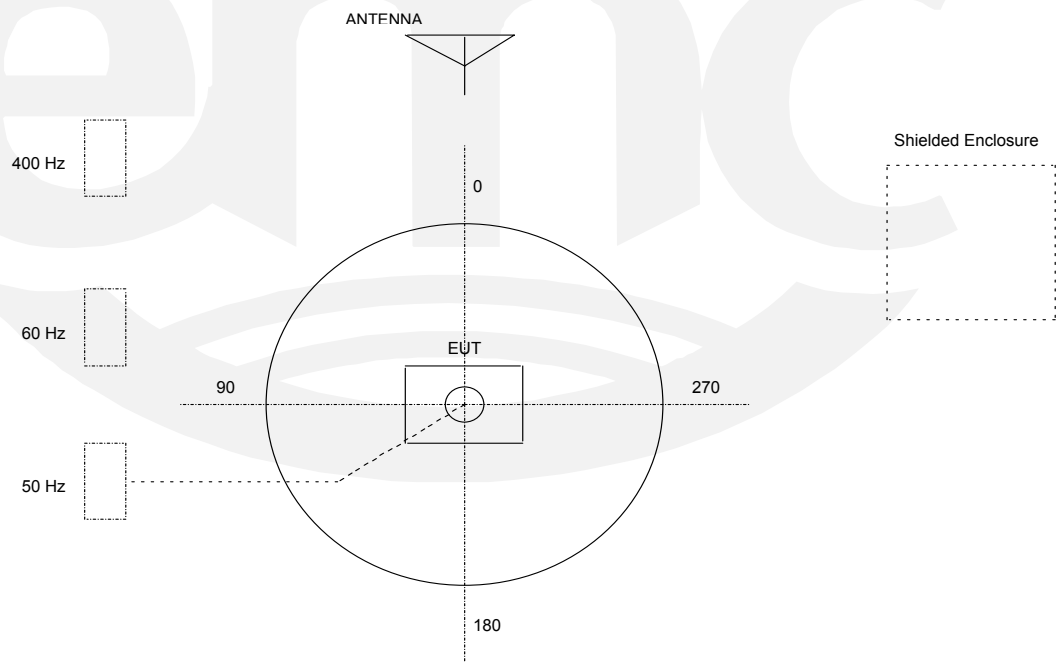
Inter-Modulation Test, pages A77 – A149

## TEST SETUP FOR EMISSIONS TESTING

### WILD RIVER LAB Large Test Site

**Notes:**

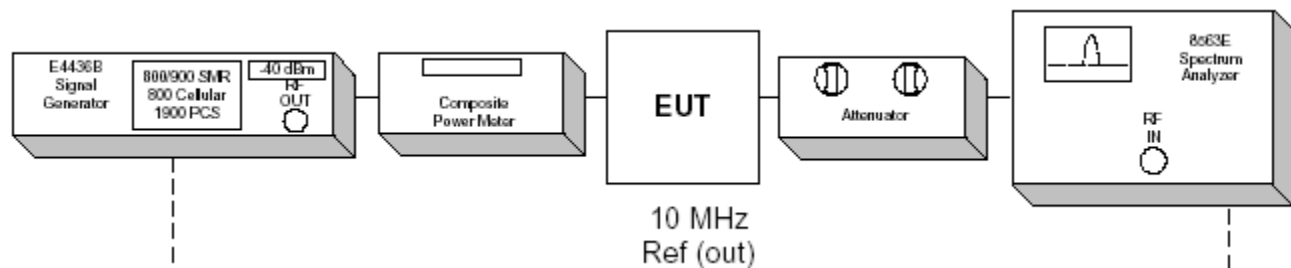
1. Items shown in dotted lines are located on the floor below the test area. It is 5 meters vertically from the ground floor to the test area.
2. 50 Hz, 60 Hz, and 400 Hz are power panels for alternating current.
3. The antenna may be positioned horizontally 3, 10 or 30 meters from the center of the 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.





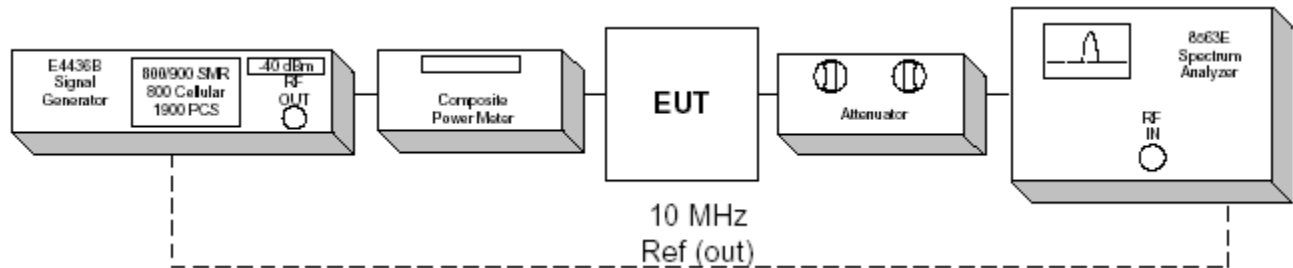
**Conducted Emission Limits Test for ADC Inc.  
Digivance® Street Coverage Solution  
Model Numbers  
DGVC-431X0000100SYS, DGVC-441X0000100SYS  
DGVC-451X0000100SYS, DGVC-461X0000100SYS**

**Test Set-up**



**Effective Isotropic Radiated Power Limit Test for ADC Inc.  
Digivance® Street Coverage Solution  
Model Numbers  
DGVC-431X0000100SYS, DGVC-441X0000100SYS  
DGVC-451X0000100SYS, DGVC-461X0000100SYS**

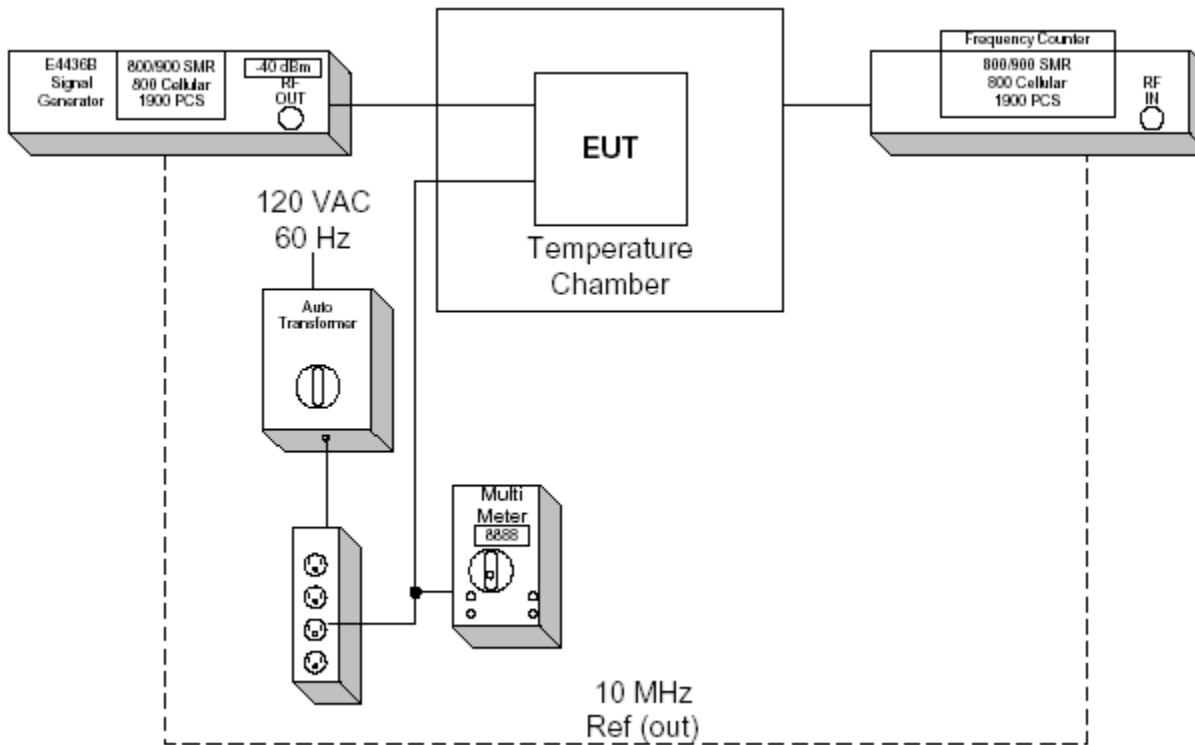
**Test Set-up**



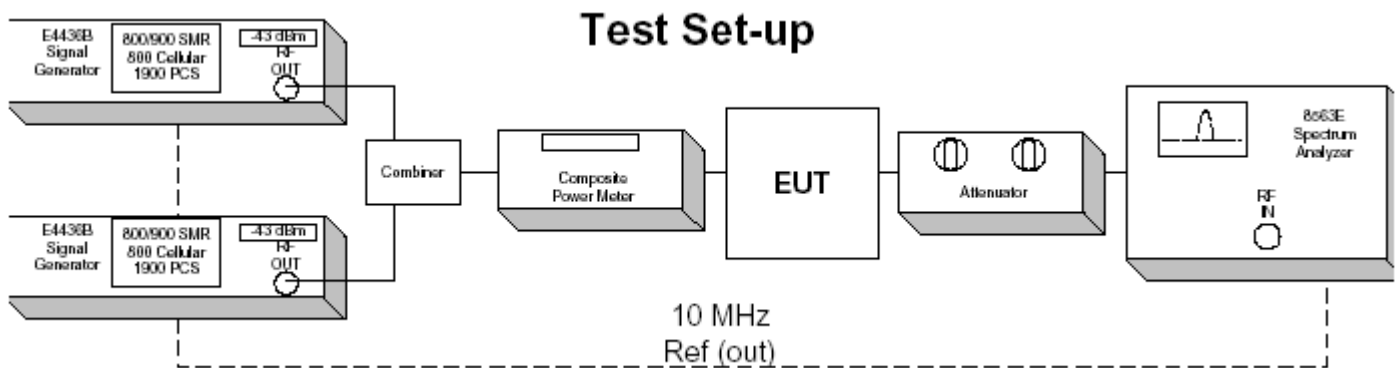
**Frequency Tolerance Test for ADC Inc.  
 Digivance® Street Coverage Solution  
 Model Numbers  
 DGVC-431X0000100SYS, DGVC-441X0000100SYS  
 DGVC-451X0000100SYS, DGVC-461X0000100SYS**

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



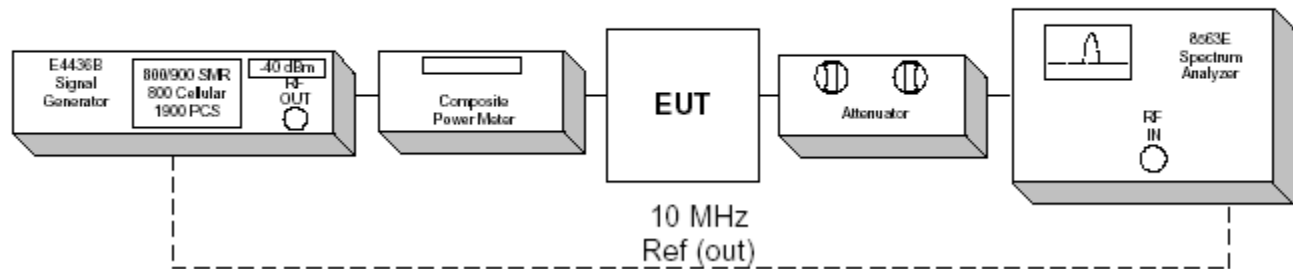
**Inter-Modulation Test for ADC Inc.  
Digivance® Street Coverage Solution  
Model Numbers  
DGVC-431X0000100SYS, DGVC-441X0000100SYS  
DGVC-451X0000100SYS, DGVC-461X0000100SYS**



**Occupied Bandwidth Modulation Test for ADC Inc.  
Digivance® Street Coverage Solution  
Model Numbers  
DGVC-431X0000100SYS, DGVC-441X0000100SYS  
DGVC-451X0000100SYS, DGVC-461X0000100SYS**



**Test Set-up**



Test setup photo, radiated emissions



Test setup photo, radiated emissions



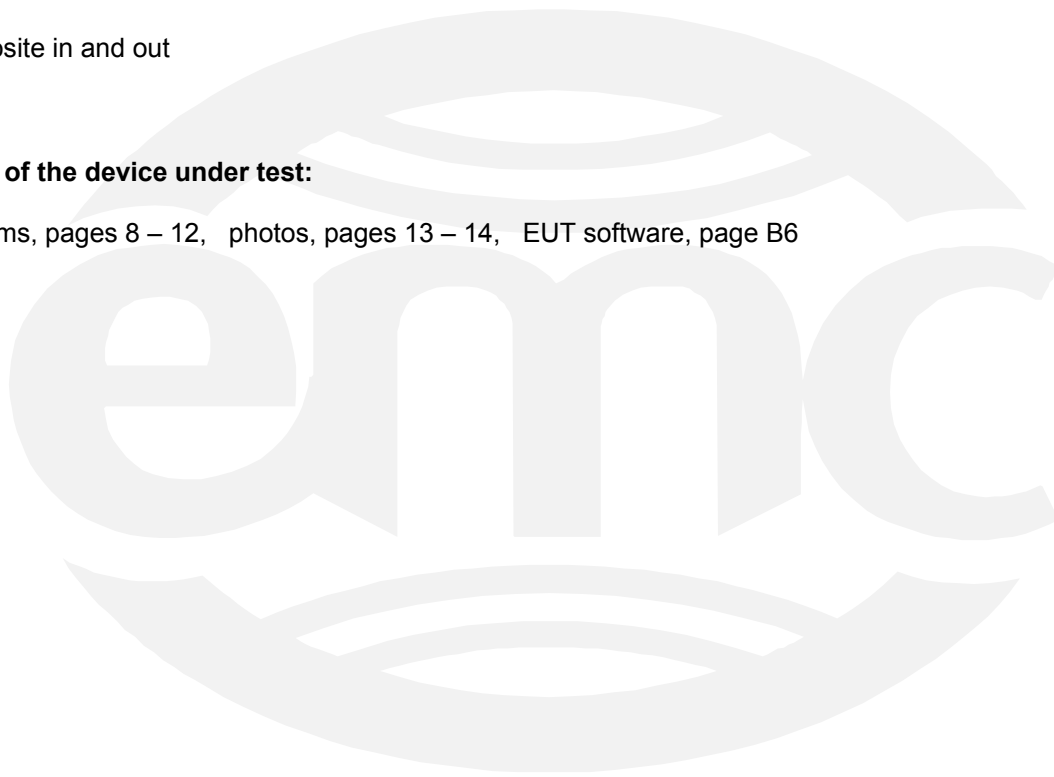
### **Test Operation Mode:**

**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>8 November 2005</u>
Condition of EUT:	<u>Normal</u>
Testing Start Date: (ADC)	<u>30 September 2005</u>
Testing End Date: (TÜV)	<u>8 November 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 Street Coverage Solution  
 Model Number DGVC-431X0000100SYS, DGVC-  
 441X0000100SYS, DGVC-451X0000100SYS, and DGVC-  
 461X0000100SYS**

\*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 TDMA, GSM, and CDMA 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 for 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 31.5 dB to compensate for attenuators and cable loss between the EUT and the meter.

<b>TDMA</b>		<b>5.85 Watts</b>		<b>GSM</b>		<b>5.58 Watts</b>	
Band AD	(1900 MHz)	Band AD	(1900 MHz)	Band AD	(1900 MHz)	Band AD	(1900 MHz)
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
1930.0 MHz	<u>37.00</u> dBm	1930.0 MHz	<u>37.13</u> dBm	1930.0 MHz	<u>37.13</u> dBm	1930.0 MHz	<u>37.13</u> dBm
1940.0 MHz	<u>37.50</u> dBm	1940.0 MHz	<u>37.30</u> dBm	1940.0 MHz	<u>37.30</u> dBm	1940.0 MHz	<u>37.30</u> dBm
1950.0 MHz	<u>36.50</u> dBm	1950.0 MHz	<u>36.63</u> dBm	1950.0 MHz	<u>36.63</u> dBm	1950.0 MHz	<u>36.63</u> dBm
Band DBE	(1900 MHz)	Band DBE	(1900 MHz)	Band DBE	(1900 MHz)	Band DBE	(1900 MHz)
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
1945.0 MHz	<u>37.17</u> dBm	1945.0 MHz	<u>37.47</u> dBm	1945.0 MHz	<u>37.47</u> dBm	1945.0 MHz	<u>37.47</u> dBm
1957.5 MHz	<u>37.33</u> dBm	1957.5 MHz	<u>37.13</u> dBm	1957.5 MHz	<u>37.13</u> dBm	1957.5 MHz	<u>37.13</u> dBm
1970.0 MHz	<u>36.67</u> dBm	1970.0 MHz	<u>37.13</u> dBm	1970.0 MHz	<u>37.13</u> dBm	1970.0 MHz	<u>37.13</u> dBm
Band BEF	(1900 MHz)	Band BEF	(1900 MHz)	Band BEF	(1900 MHz)	Band BEF	(1900 MHz)
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
1950.0 MHz	<u>36.17</u> dBm	1950.0 MHz	<u>36.47</u> dBm	1950.0 MHz	<u>36.47</u> dBm	1950.0 MHz	<u>36.47</u> dBm
1962.5 MHz	<u>37.17</u> dBm	1962.5 MHz	<u>37.13</u> dBm	1962.5 MHz	<u>37.13</u> dBm	1962.5 MHz	<u>37.13</u> dBm
1975.0 MHz	<u>36.50</u> dBm	1975.0 MHz	<u>36.63</u> dBm	1975.0 MHz	<u>36.63</u> dBm	1975.0 MHz	<u>36.63</u> dBm
Band EFC	(1900 MHz)	Band EFC	(1900 MHz)	Band EFC	(1900 MHz)	Band EFC	(1900 MHz)
Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output	Carrier Frequency	Carrier Output
1965.0 MHz	<u>35.83</u> dBm	1965.0 MHz	<u>36.47</u> dBm	1965.0 MHz	<u>36.47</u> dBm	1965.0 MHz	<u>36.47</u> dBm
1977.5 MHz	<u>37.67</u> dBm	1977.5 MHz	<u>37.13</u> dBm	1977.5 MHz	<u>37.13</u> dBm	1977.5 MHz	<u>37.13</u> dBm
1990.0 MHz	<u>35.67</u> dBm	1990.0 MHz	<u>36.63</u> dBm	1990.0 MHz	<u>36.63</u> dBm	1990.0 MHz	<u>36.63</u> dBm

**CDMA**                      **5.83 Watts**

Band AD	(1900 MHz)
Carrier Frequency	Carrier Output
1930.0 MHz	<u>37.23</u> dBm
1940.0 MHz	<u>36.80</u> dBm
1950.0 MHz	<u>36.73</u> dBm

Band DBE	(1900 MHz)
Carrier Frequency	Carrier Output
1945.0 MHz	<u>37.40</u> dBm
1957.5 MHz	<u>36.56</u> dBm
1970.0 MHz	<u>36.90</u> dBm

Band BEF	(1900 MHz)
Carrier Frequency	Carrier Output
1950.0 MHz	<u>37.40</u> dBm
1962.5 MHz	<u>37.66</u> dBm
1975.0 MHz	<u>37.06</u> dBm

Band EFC	(1900 MHz)
Carrier Frequency	Carrier Output
1965.0 MHz	<u>36.06</u> dBm
1977.5 MHz	<u>37.66</u> dBm
1990.0 MHz	<u>36.90</u> dBm

**Frequency Tolerance Test for ADC Inc.  
 Digivance Street Coverage Solution  
 Model Number DGVC-431X0000100SYS, DGVC-441X0000100SYS, DGVC-  
 451X0000100SYS, and DGVC-461X0000100SYS**

**EUT AD Band (1900 MHz)**

<b>Input Voltage</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
102 VAC	1930.000 MHz	1930.000 MHz	Yes
120 VAC	1930.000 MHz	1930.000 MHz	Yes
138 VAC	1930.000 MHz	1930.000 MHz	Yes
102 VAC	1940.000 MHz	1940.000 MHz	Yes
120 VAC	1940.000 MHz	1940.000 MHz	Yes
138 VAC	1940.000 MHz	1940.000 MHz	Yes
102 VAC	1950.000 MHz	1950.000 MHz	Yes
120 VAC	1950.000 MHz	1950.000 MHz	Yes
138 VAC	1950.000 MHz	1950.000 MHz	Yes
<b>Temperature</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
-30 Deg. C	1930.000 MHz	1930.000 MHz	Yes
-20 Deg. C	1930.000 MHz	1930.000 MHz	Yes
-10 Deg. C	1930.000 MHz	1930.000 MHz	Yes
0 Deg. C	1930.000 MHz	1930.000 MHz	Yes
10 Deg. C	1930.000 MHz	1930.000 MHz	Yes
20 Deg. C	1930.000 MHz	1930.000 MHz	Yes
30 Deg. C	1930.000 MHz	1930.000 MHz	Yes
40 Deg. C	1930.000 MHz	1930.000 MHz	Yes
50 Deg. C	1930.000 MHz	1930.000 MHz	Yes
-30 Deg. C	1940.000 MHz	1940.000 MHz	Yes
-20 Deg. C	1940.000 MHz	1940.000 MHz	Yes
-10 Deg. C	1940.000 MHz	1940.000 MHz	Yes
0 Deg. C	1940.000 MHz	1940.000 MHz	Yes
10 Deg. C	1940.000 MHz	1940.000 MHz	Yes
20 Deg. C	1940.000 MHz	1940.000 MHz	Yes
30 Deg. C	1940.000 MHz	1940.000 MHz	Yes
40 Deg. C	1940.000 MHz	1940.000 MHz	Yes
50 Deg. C	1940.000 MHz	1940.000 MHz	Yes
-30 Deg. C	1950.000 MHz	1950.000 MHz	Yes
-20 Deg. C	1950.000 MHz	1950.000 MHz	Yes
-10 Deg. C	1950.000 MHz	1950.000 MHz	Yes
0 Deg. C	1950.000 MHz	1950.000 MHz	Yes
10 Deg. C	1950.000 MHz	1950.000 MHz	Yes
20 Deg. C	1950.000 MHz	1950.000 MHz	Yes
30 Deg. C	1950.000 MHz	1950.000 MHz	Yes
40 Deg. C	1950.000 MHz	1950.000 MHz	Yes
50 Deg. C	1950.000 MHz	1950.000 MHz	Yes

**Frequency Tolerance Test for ADC Inc.  
 Digivance Street Coverage Solution  
 Model Number DGVC-431X0000100SYS, DGVC-441X0000100SYS, DGVC-  
 451X0000100SYS, and DGVC-461X0000100SYS**

**EUT DBE Band (1900 MHz)**

<b>Input Voltage</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
102 VAC	1945.000 MHz	1945.000 MHz	Yes
120 VAC	1945.000 MHz	1945.000 MHz	Yes
138 VAC	1945.000 MHz	1945.000 MHz	Yes
102 VAC	1957.500 MHz	1957.500 MHz	Yes
120 VAC	1957.500 MHz	1957.500 MHz	Yes
138 VAC	1957.500 MHz	1957.500 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
<b>Temperature</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
-30 Deg. C	1945.000 MHz	1945.000 MHz	Yes
-20 Deg. C	1945.000 MHz	1945.000 MHz	Yes
-10 Deg. C	1945.000 MHz	1945.000 MHz	Yes
0 Deg. C	1945.000 MHz	1945.000 MHz	Yes
10 Deg. C	1945.000 MHz	1945.000 MHz	Yes
20 Deg. C	1945.000 MHz	1945.000 MHz	Yes
30 Deg. C	1945.000 MHz	1945.000 MHz	Yes
40 Deg. C	1945.000 MHz	1945.000 MHz	Yes
50 Deg. C	1945.000 MHz	1945.000 MHz	Yes
-30 Deg. C	1957.500 MHz	1957.500 MHz	Yes
-20 Deg. C	1957.500 MHz	1957.500 MHz	Yes
-10 Deg. C	1957.500 MHz	1957.500 MHz	Yes
0 Deg. C	1957.500 MHz	1957.500 MHz	Yes
10 Deg. C	1957.500 MHz	1957.500 MHz	Yes
20 Deg. C	1957.500 MHz	1957.500 MHz	Yes
30 Deg. C	1957.500 MHz	1957.500 MHz	Yes
40 Deg. C	1957.500 MHz	1957.500 MHz	Yes
50 Deg. C	1957.500 MHz	1957.500 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 Street Coverage Solution  
 Model Number DGVC-431X0000100SYS, DGVC-441X0000100SYS, DGVC-  
 451X0000100SYS, and DGVC-461X0000100SYS**

**EUT BEF Band (1900 MHz)**

<b>Input Voltage</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
102 VAC	1950.000 MHz	1950.000 MHz	Yes
120 VAC	1950.000 MHz	1950.000 MHz	Yes
138 VAC	1950.000 MHz	1950.000 MHz	Yes
102 VAC	1962.500 MHz	1962.500 MHz	Yes
120 VAC	1962.500 MHz	1962.500 MHz	Yes
138 VAC	1962.500 MHz	1962.500 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
<b>Temperature</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
-30 Deg. C	1950.000 MHz	1950.000 MHz	Yes
-20 Deg. C	1950.000 MHz	1950.000 MHz	Yes
-10 Deg. C	1950.000 MHz	1950.000 MHz	Yes
0 Deg. C	1950.000 MHz	1950.000 MHz	Yes
10 Deg. C	1950.000 MHz	1950.000 MHz	Yes
20 Deg. C	1950.000 MHz	1950.000 MHz	Yes
30 Deg. C	1950.000 MHz	1950.000 MHz	Yes
40 Deg. C	1950.000 MHz	1950.000 MHz	Yes
50 Deg. C	1950.000 MHz	1950.000 MHz	Yes
-30 Deg. C	1962.500 MHz	1962.500 MHz	Yes
-20 Deg. C	1962.500 MHz	1962.500 MHz	Yes
-10 Deg. C	1962.500 MHz	1962.500 MHz	Yes
0 Deg. C	1962.500 MHz	1962.500 MHz	Yes
10 Deg. C	1962.500 MHz	1962.500 MHz	Yes
20 Deg. C	1962.500 MHz	1962.500 MHz	Yes
30 Deg. C	1962.500 MHz	1962.500 MHz	Yes
40 Deg. C	1962.500 MHz	1962.500 MHz	Yes
50 Deg. C	1962.500 MHz	1962.500 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 Street Coverage Solution  
 Model Number DGVC-431X0000100SYS, DGVC-441X0000100SYS, DGVC-  
 451X0000100SYS, and DGVC-461X0000100SYS**

**EUT EFC Band (1900 MHz)**

<b>Input Voltage</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
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	1977.500 MHz	1977.500 MHz	Yes
120 VAC	1977.500 MHz	1977.500 MHz	Yes
138 VAC	1977.500 MHz	1977.500 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
<b>Temperature</b>	<b>Carrier Frequency</b>	<b>Measured Frequency</b>	<b>Meets Requirements?</b>
-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	1977.500 MHz	1977.500 MHz	Yes
-20 Deg. C	1977.500 MHz	1977.500 MHz	Yes
-10 Deg. C	1977.500 MHz	1977.500 MHz	Yes
0 Deg. C	1977.500 MHz	1977.500 MHz	Yes
10 Deg. C	1977.500 MHz	1977.500 MHz	Yes
20 Deg. C	1977.500 MHz	1977.500 MHz	Yes
30 Deg. C	1977.500 MHz	1977.500 MHz	Yes
40 Deg. C	1977.500 MHz	1977.500 MHz	Yes
50 Deg. C	1977.500 MHz	1977.500 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



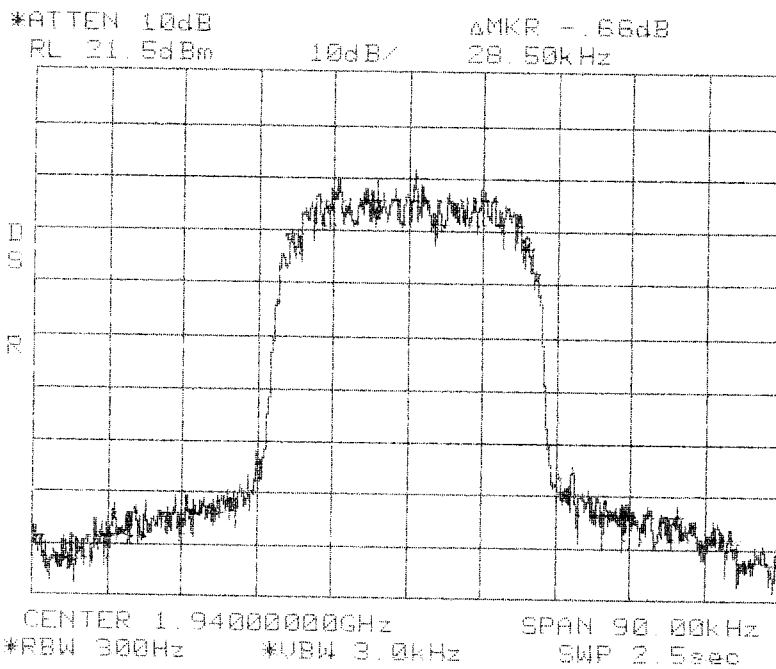
**Occupied Bandwidth Modulation Test for ADC Inc.  
Digivanceâ Street Coverage Solution  
Model Number DGVC-431X0000100SYS, DGVC-  
441X0000100SYS, DGVC-451X0000100SYS, and DGVC-  
461X0000100SYS**

An input/output Occupied Bandwidth test was done with modulation types: TDMA, GSM, and CDMA. 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.

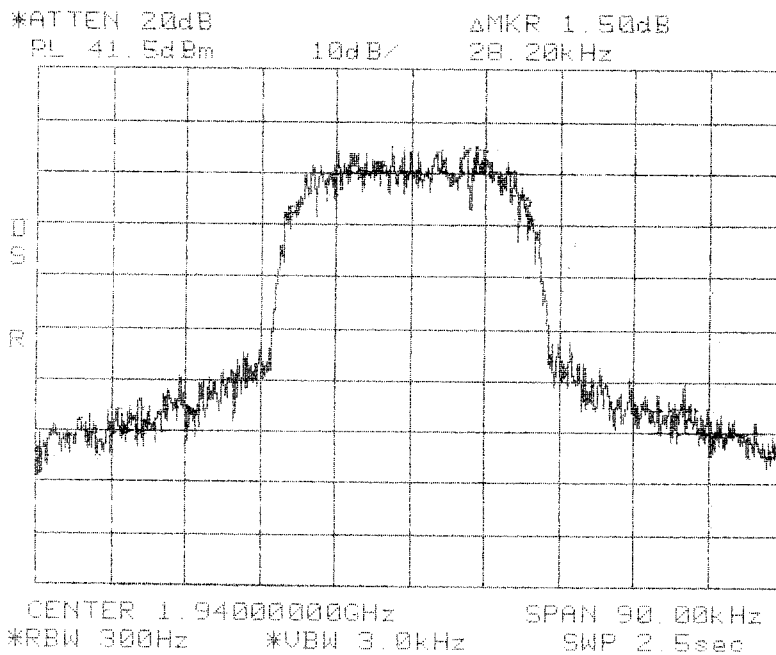
**Results:**

Pass (see plots)

Center: 1940.0 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



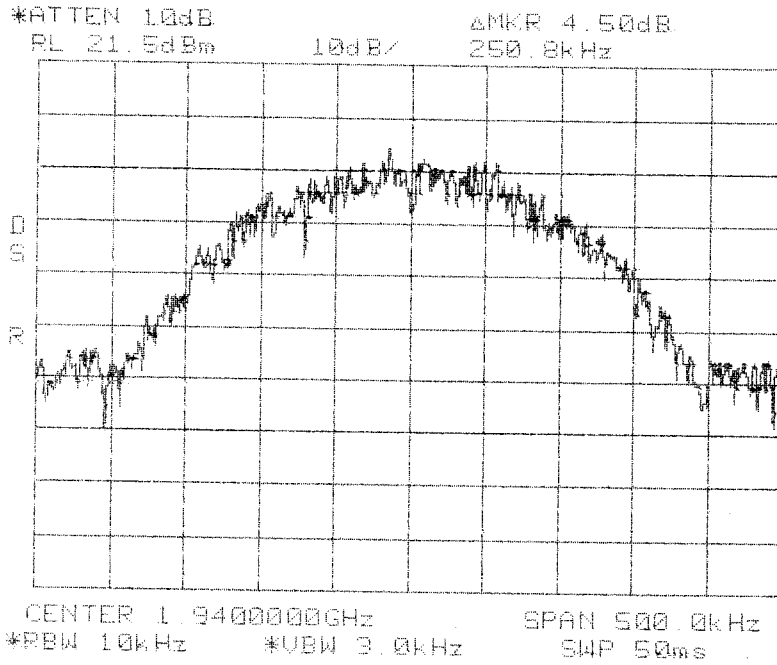
**Occupied Bandwidth  
TDMA In  
PCS 1900 MHz  
AD Band**



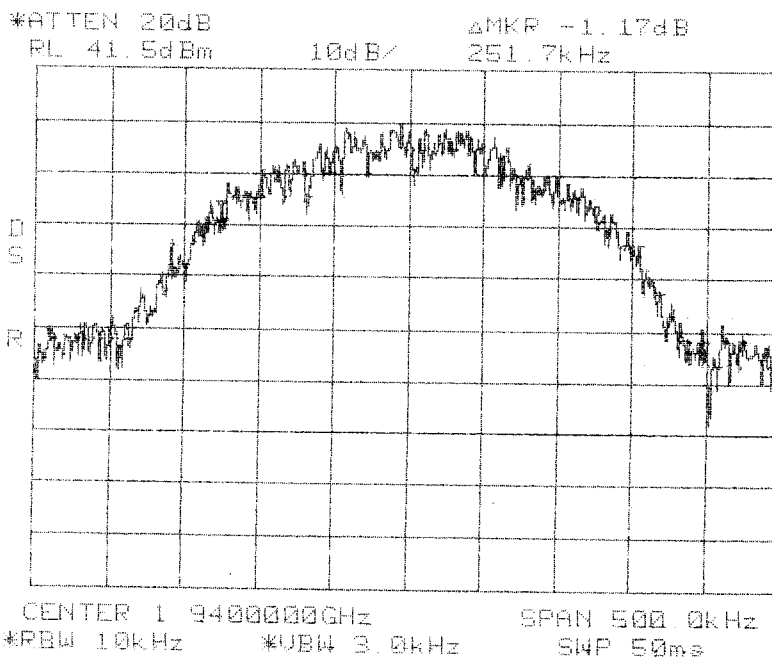
**Occupied Bandwidth  
TDMA Out  
PCS 1900 MHz  
AD Band**

Center: 1940.0 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz

Center: 1940.0 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



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

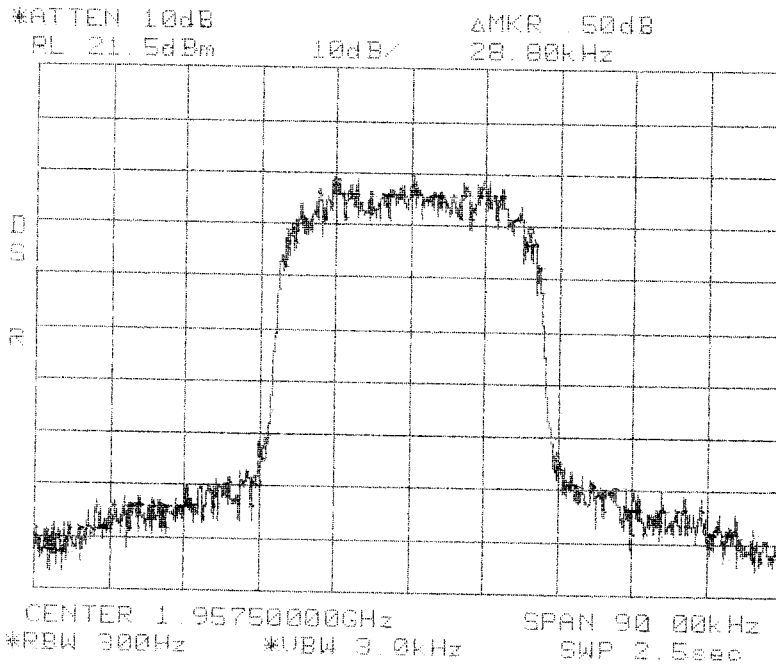


**Occupied Bandwidth  
GSM Out  
PCS 1900 MHz  
AD Band**

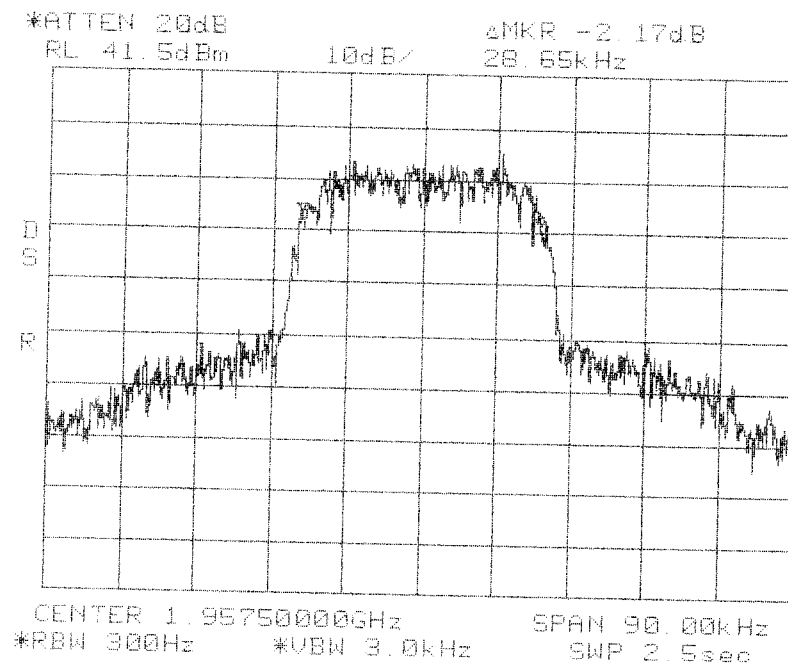
Center: 1940.0 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



Center: 1957.5 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



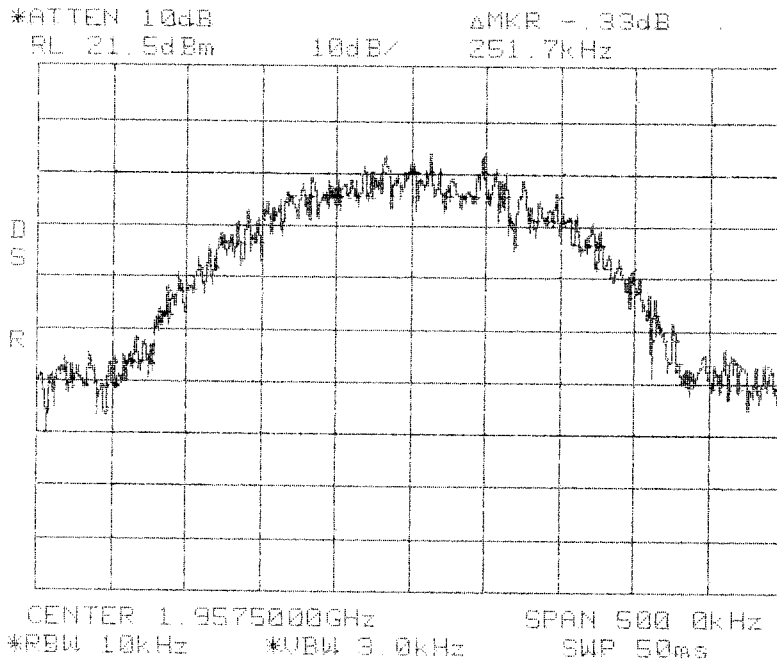
**Occupied Bandwidth  
TDMA In  
PCS 1900 MHz  
DBE Band**



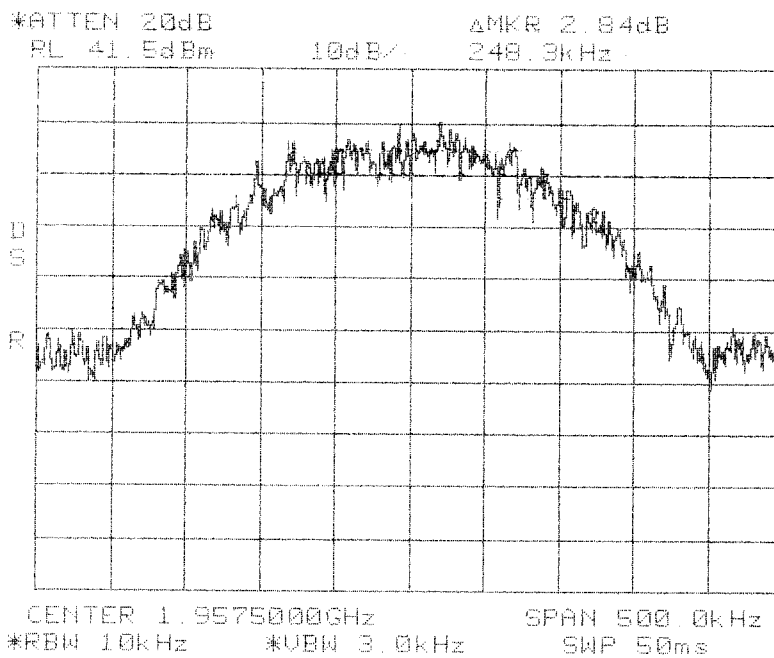
**Occupied Bandwidth  
TDMA Out  
PCS 1900 MHz  
DBE Band**

Center: 1957.5 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz

Center: 1957.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



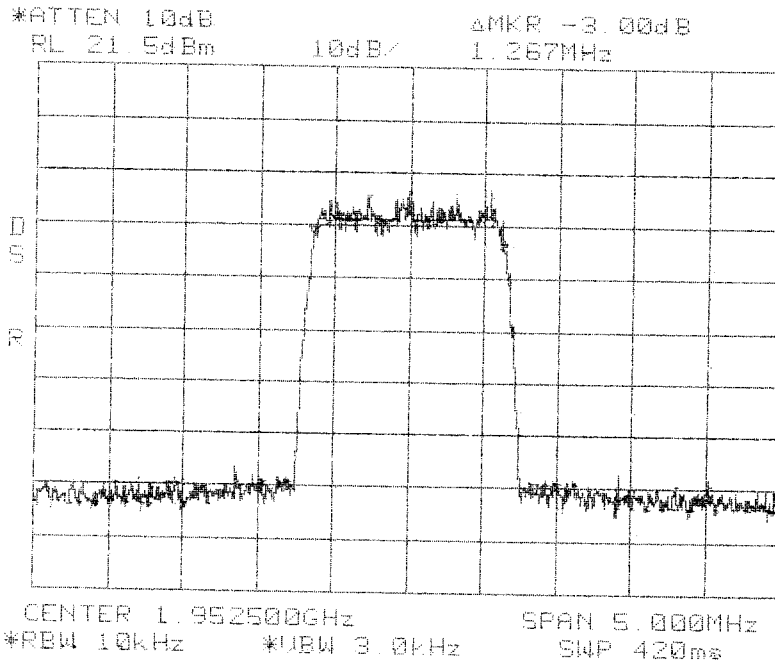
**Occupied Bandwidth  
GSM In  
PCS 1900 MHz  
DBE Band**



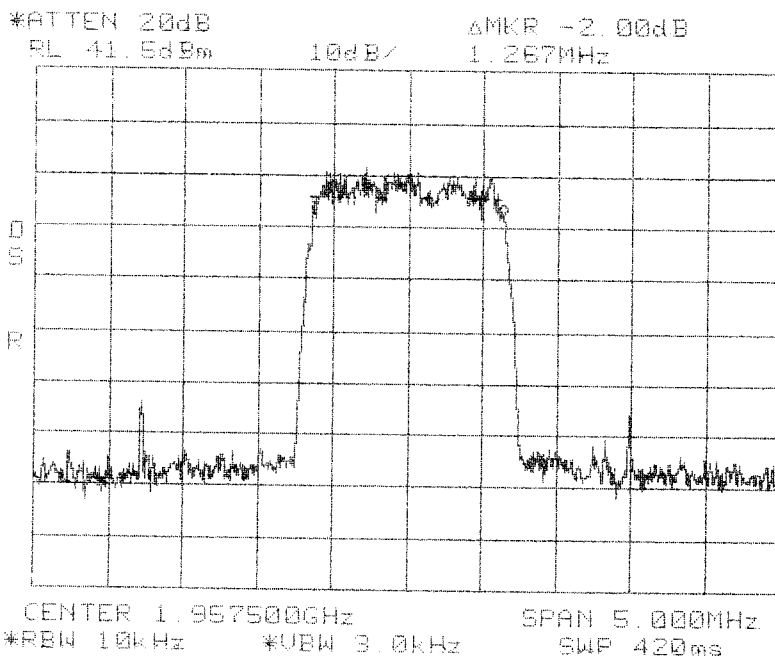
**Occupied Bandwidth  
GSM Out  
PCS 1900 MHz  
DBE Band**

Center: 1957.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz

Center: 1957.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



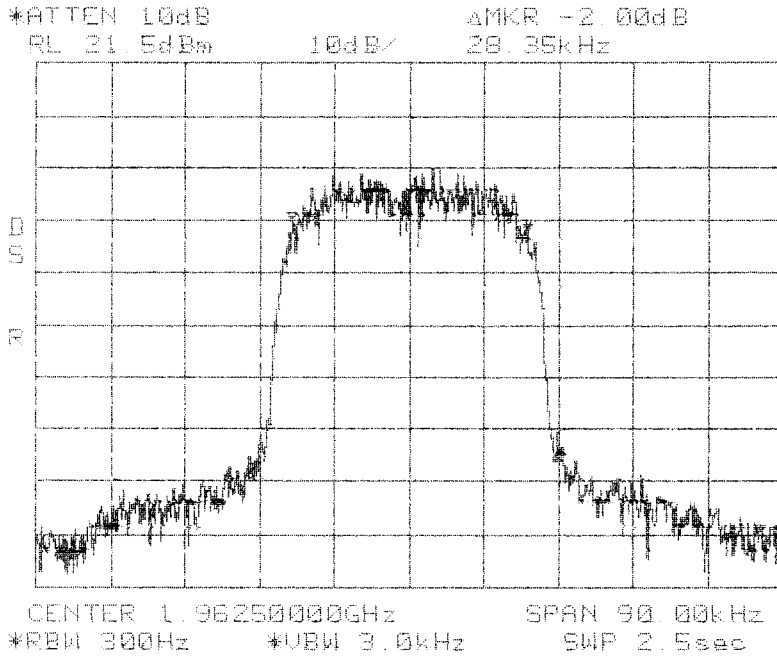
**Occupied Bandwidth  
CDMA In  
PCS 1900 MHz  
DBE Band**



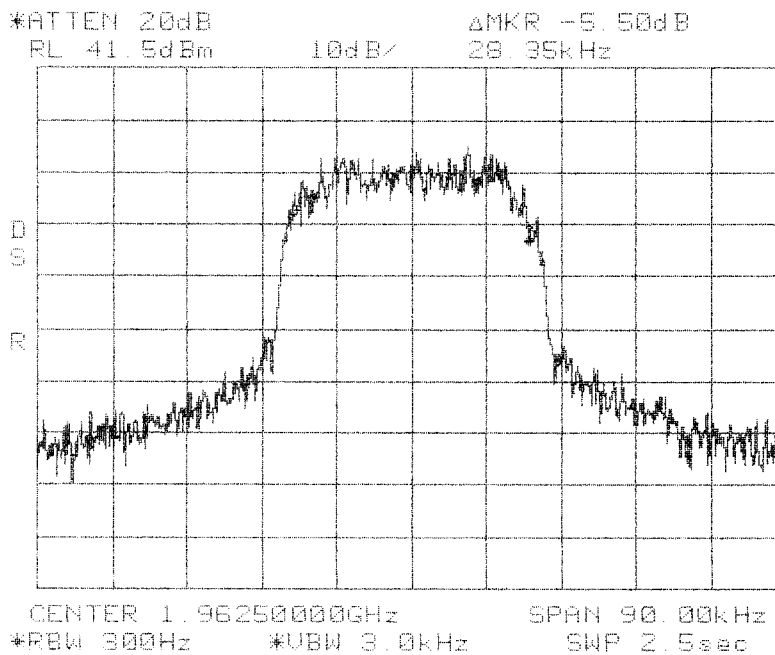
**Occupied Bandwidth  
CDMA Out  
PCS 1900 MHz  
DBE Band**

Center: 1957.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz

Center: 1962.5 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



**Occupied Bandwidth  
TDMA In  
PCS 1900 MHz  
BEF Band**

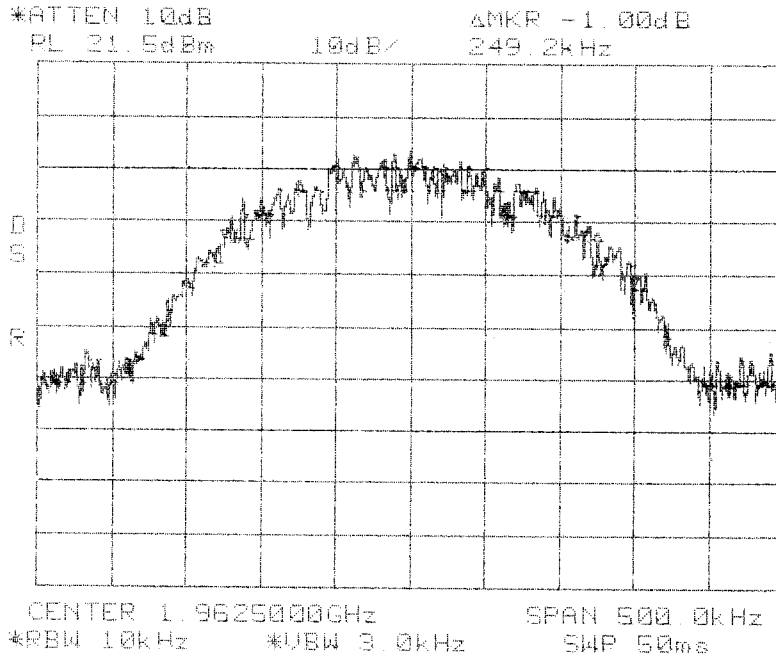


**Occupied Bandwidth  
TDMA Out  
PCS 1900 MHz  
BEF Band**

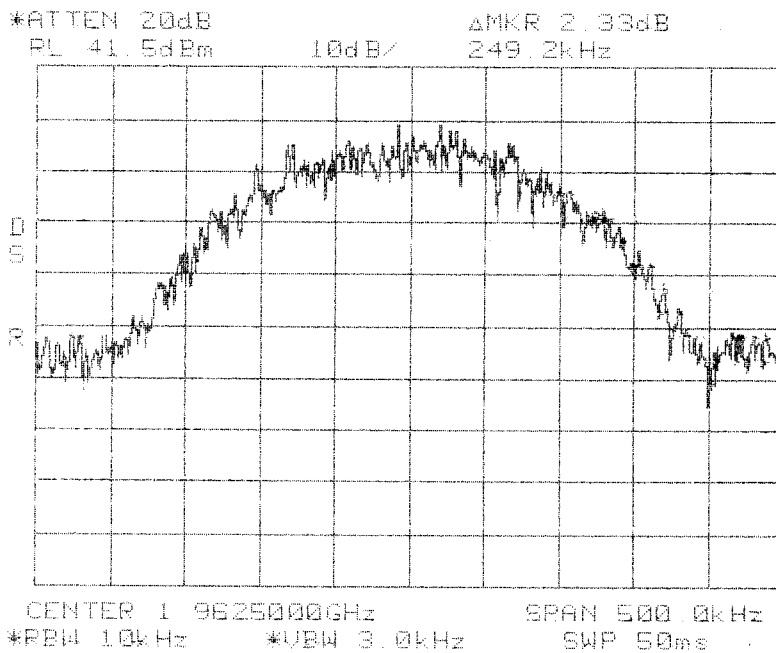
Center: 1962.5 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



Center: 1962.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



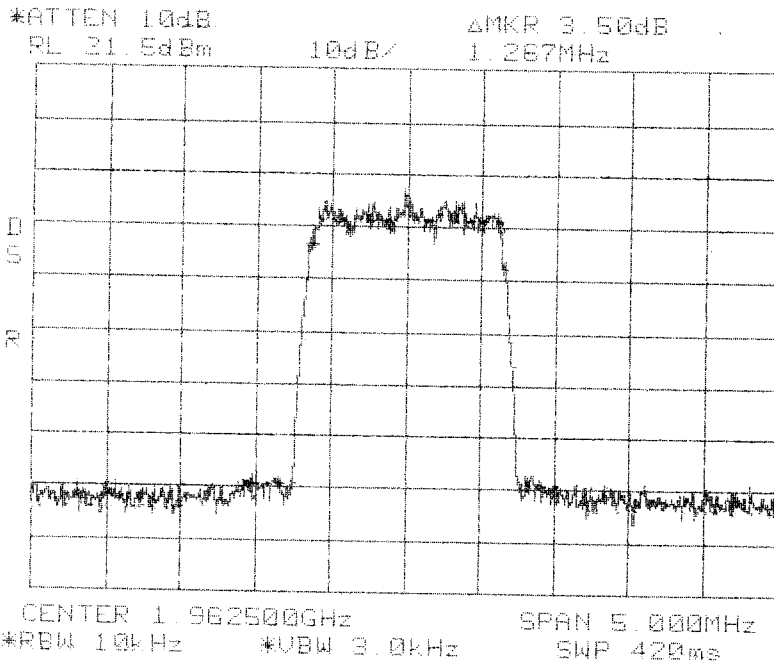
**Occupied Bandwidth  
GSM In  
PCS 1900 MHz  
BEF Band**



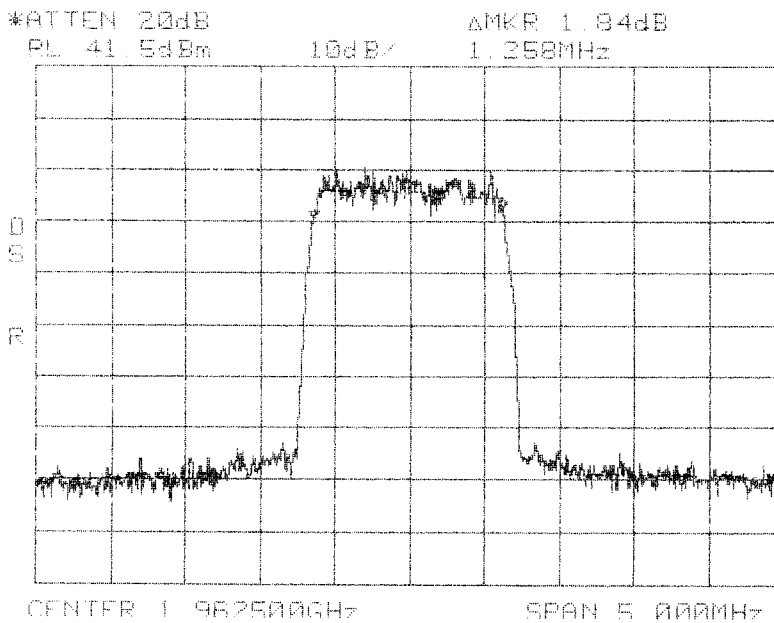
**Occupied Bandwidth  
GSM Out  
PCS 1900 MHz  
BEF Band**

Center: 1962.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz

Center: 1962.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



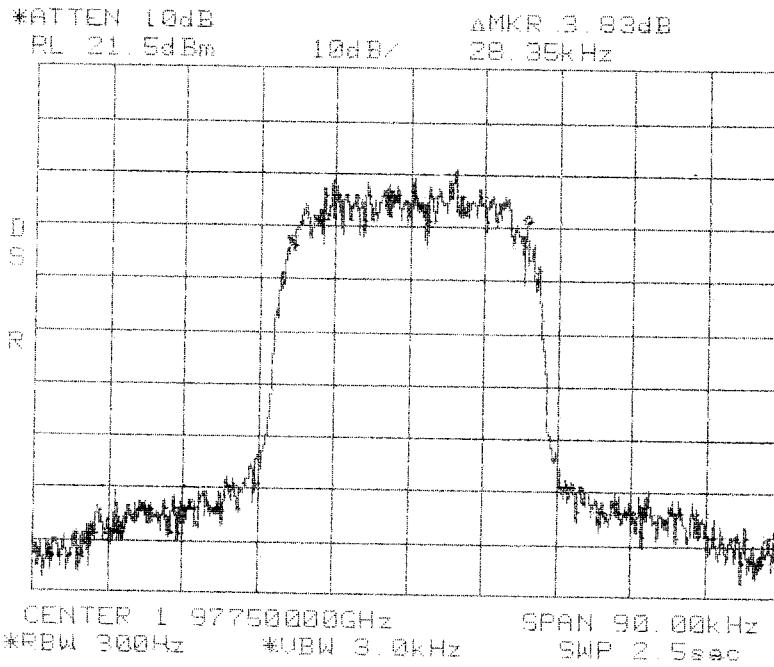
**Occupied Bandwidth  
CDMA In  
PCS 1900 MHz  
BEF Band**



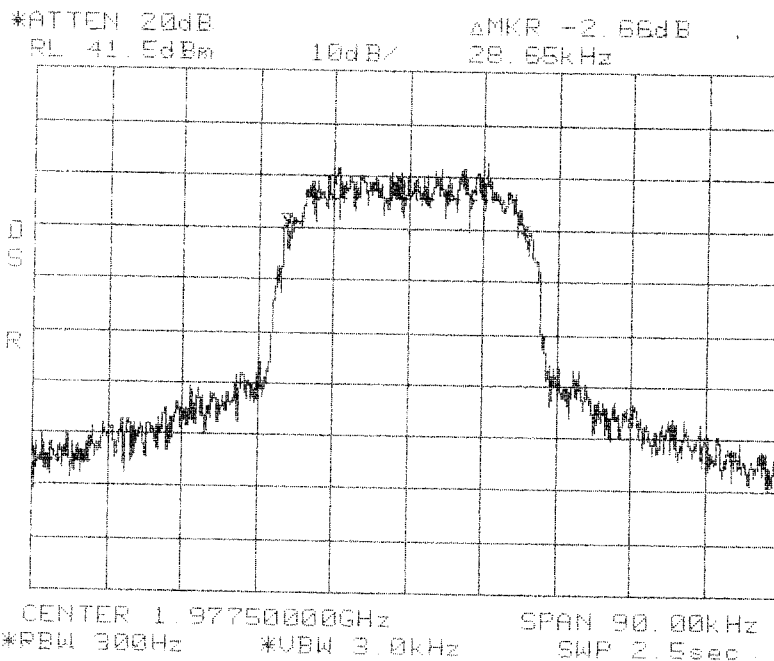
**Occupied Bandwidth  
CDMA Out  
PCS 1900 MHz  
BEF Band**

Center: 1962.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz

Center: 1977.5 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



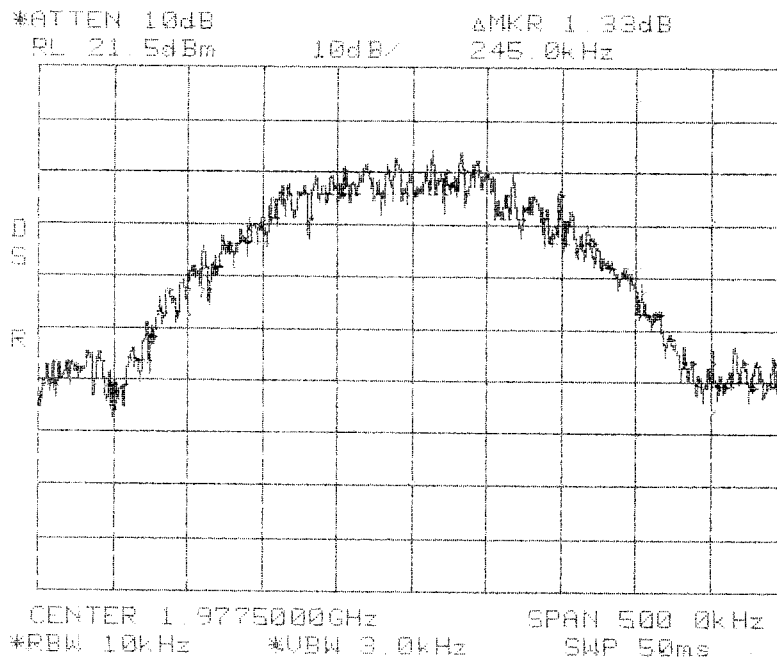
**Occupied Bandwidth  
TDMA In  
PCS 1900 MHz  
EFC Band**



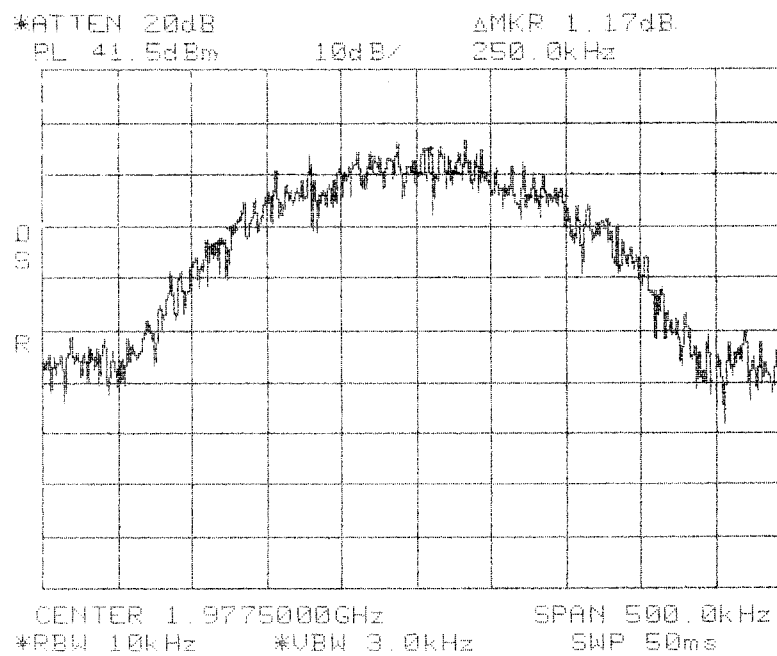
**Occupied Bandwidth  
TDMA Out  
PCS 1900 MHz  
EFC Band**

Center: 1977.5 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz

Center: 1977.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



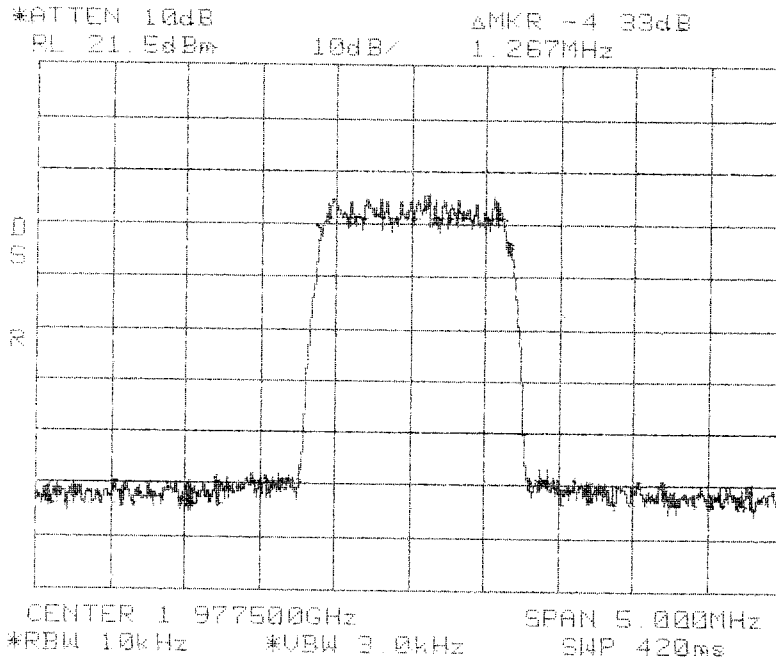
**Occupied Bandwidth  
GSM In  
PCS 1900 MHz  
EFC Band**



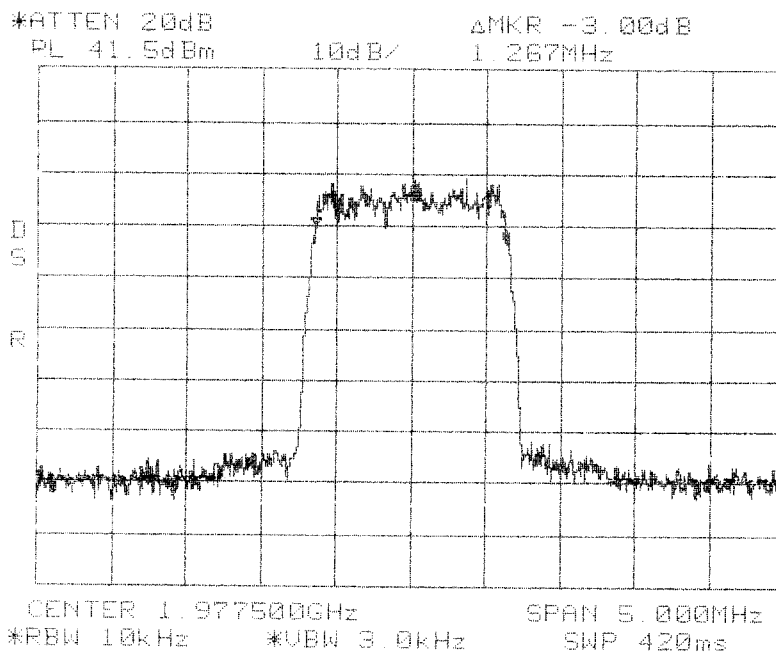
**Occupied Bandwidth  
GSM Out  
PCS 1900 MHz  
EFC Band**

Center: 1977.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz

Center: 1977.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz



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



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

Center: 1977.5 MHz  
Span: 5 MHz  
RBW/VBW: 10 kHz / 3 kHz

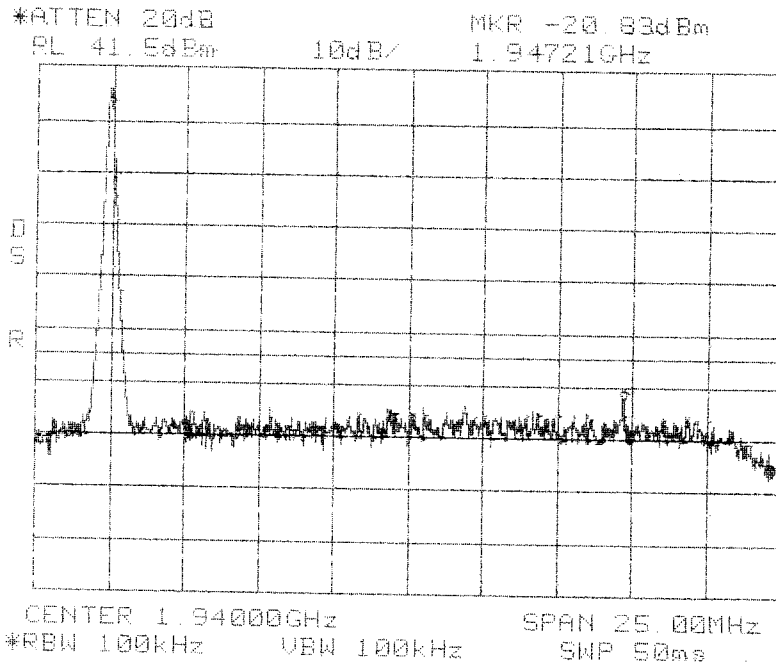
**Conducted Emission Limits Test for ADC Inc.**  
**Digivanceâ Street Coverage Solution**  
**Model Number DGVC-431X0000100SYS, DGVC-441X0000100SYS, DGVC-**  
**451X0000100SYS, and DGVC-461X0000100SYS**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10<sup>th</sup> harmonic of the highest carrier frequency. Test signals used are TDMA, GSM, and CDMA. 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  
$$(19\text{dBm} - [43 + 10\log(0.08\text{W})])$$

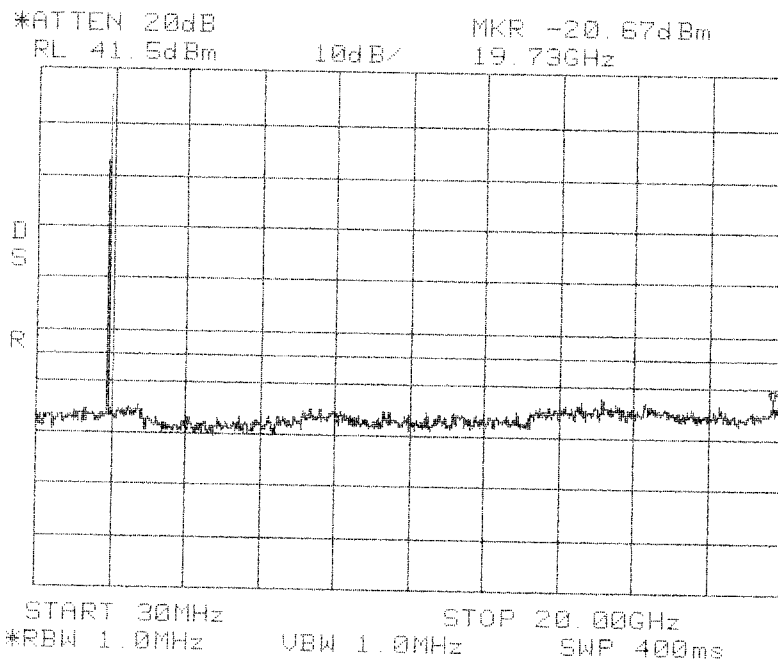
Band edge compliance is also demonstrated using a TDMA, GSM, and CDMA signal at the upper and lower limits of the band and a resolution bandwidth of 300 Hz.

Results:  
Pass (See plots)

Center: 1940.0 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



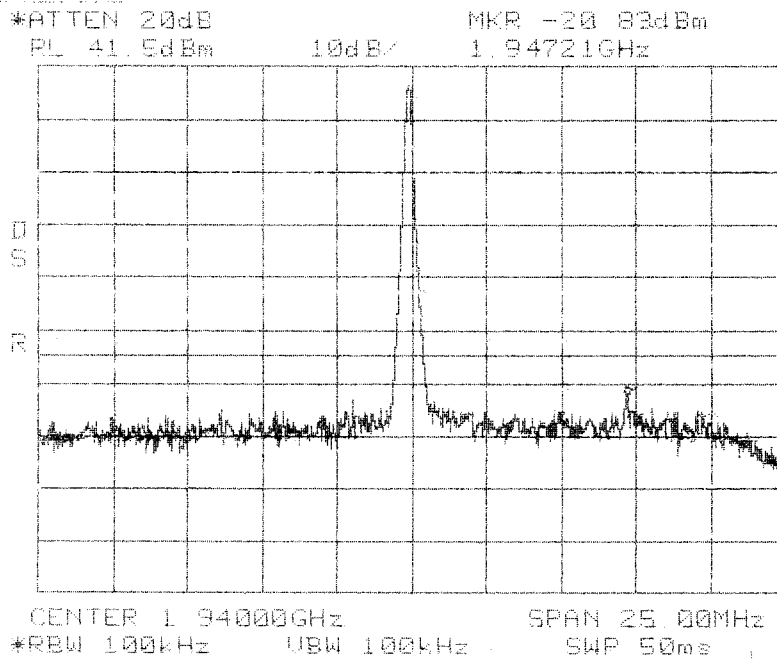
**Conducted Emissions  
Low  
PCS 1900 MHz  
AD Band**



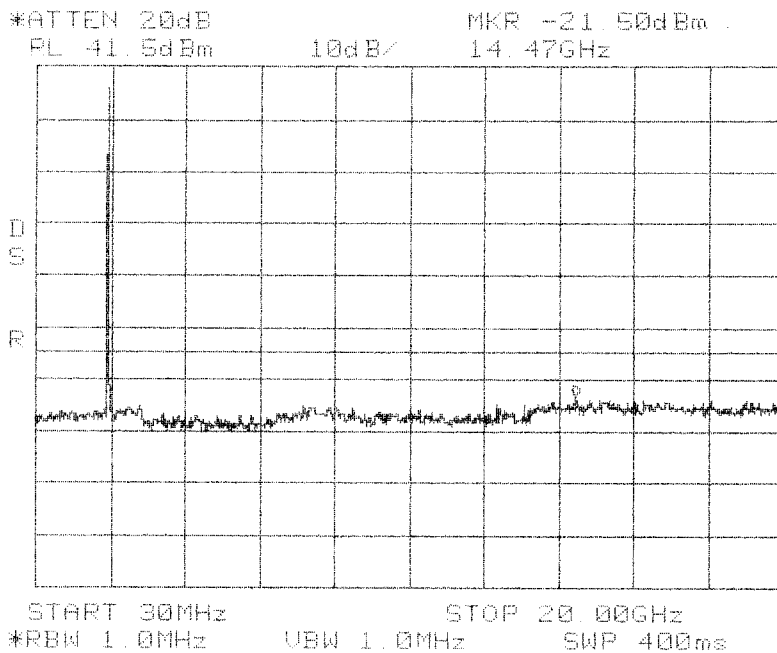
**Conducted Emissions  
Low  
PCS 1900 MHz  
AD Band**

Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz

Center: 1940.0 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



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

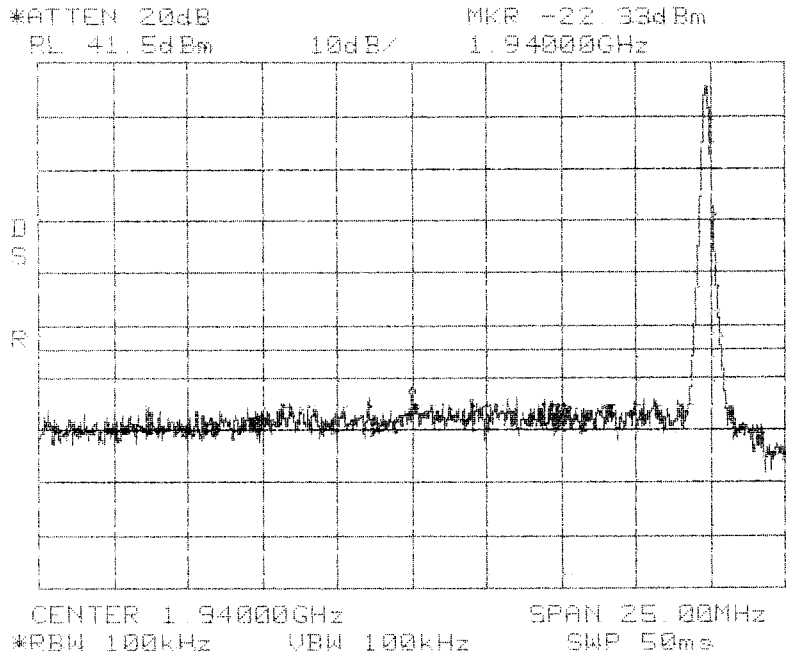


**Conducted Emissions  
Mid  
PCS 1900 MHz  
AD Band**

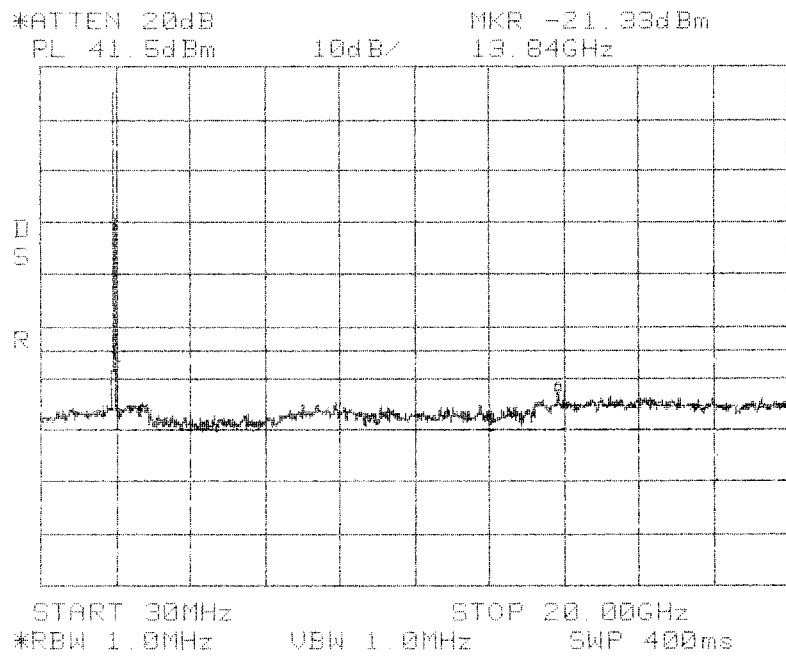
Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz



Center: 1940.0 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



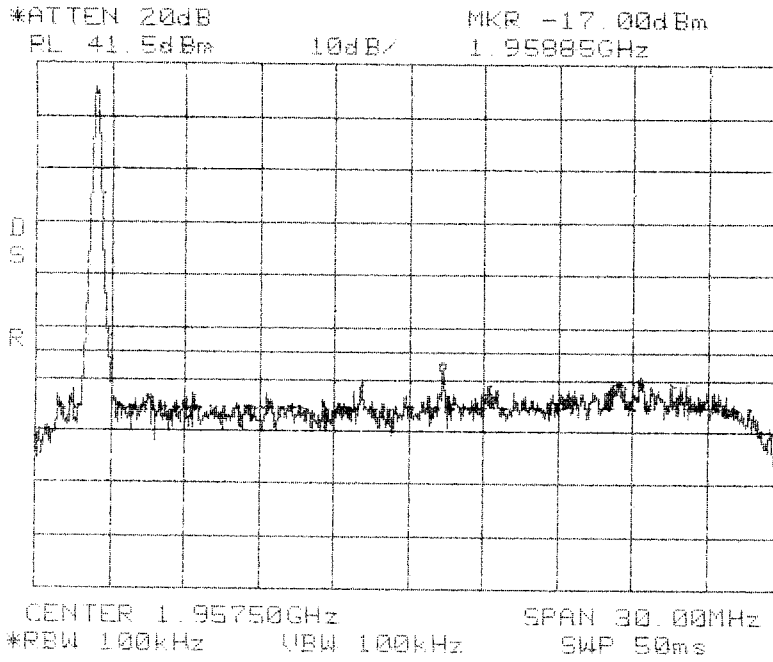
**Conducted Emissions  
High  
PCS 1900 MHz  
AD Band**



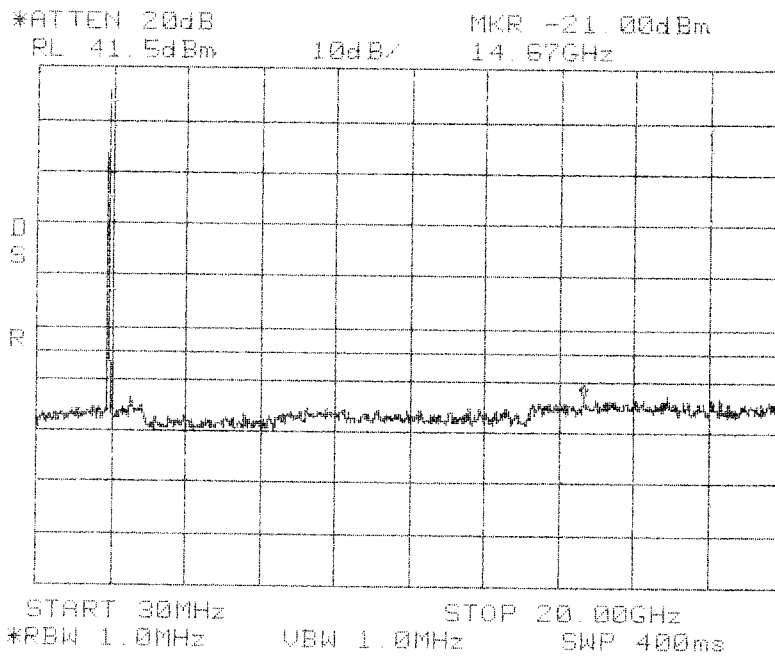
**Conducted Emissions  
High  
PCS 1900 MHz  
AD Band**

Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz

Center: 1957.5 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



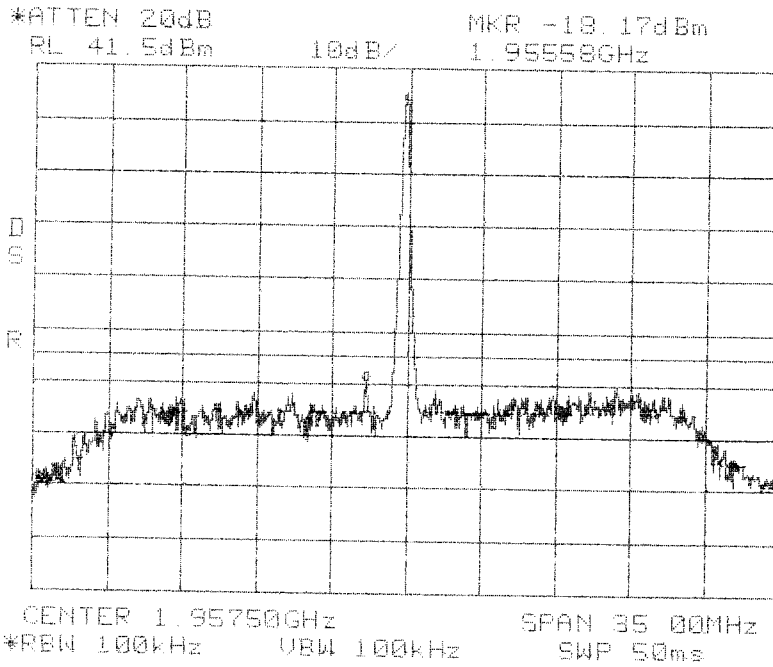
**Conducted Emissions  
Low  
PCS 1900 MHz  
DBE Band**



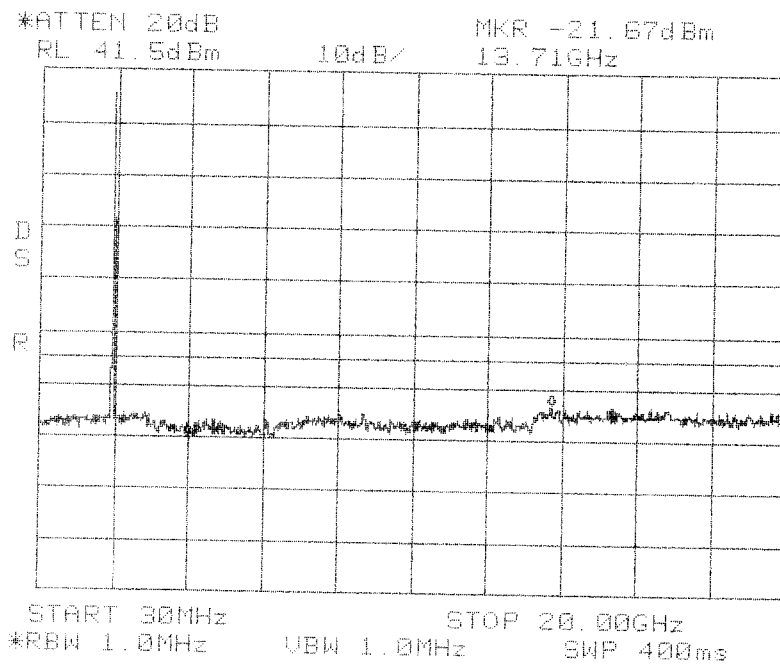
**Conducted Emissions  
Low  
PCS 1900 MHz  
DBE Band**

Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz

Center: 1957.5 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



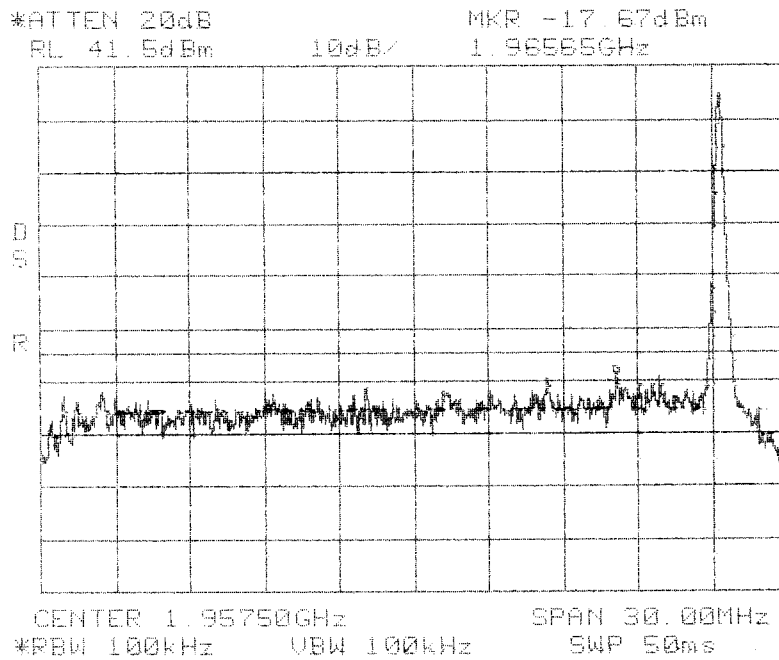
**Conducted Emissions  
Mid  
PCS 1900 MHz  
DBE Band**



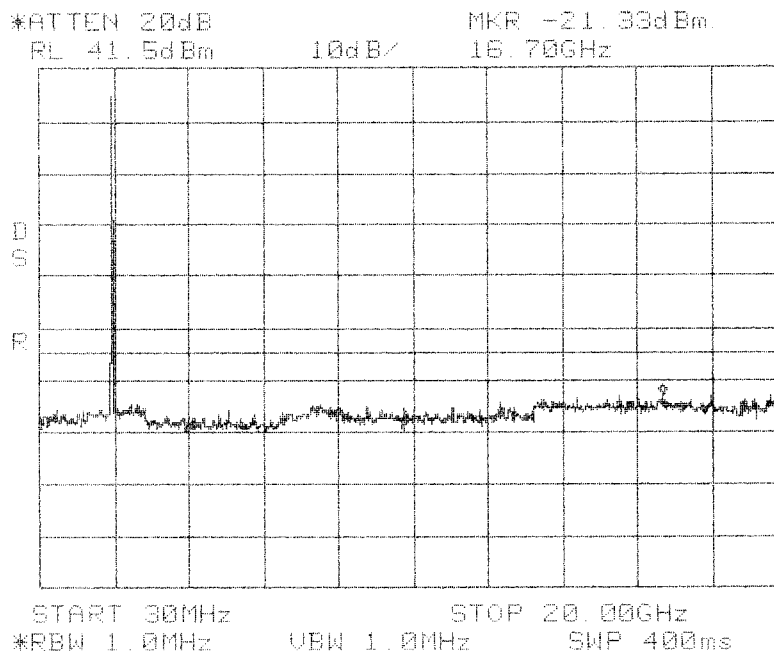
**Conducted Emissions  
Mid  
PCS 1900 MHz  
DBE Band**

Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz

Center: 1957.5 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



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

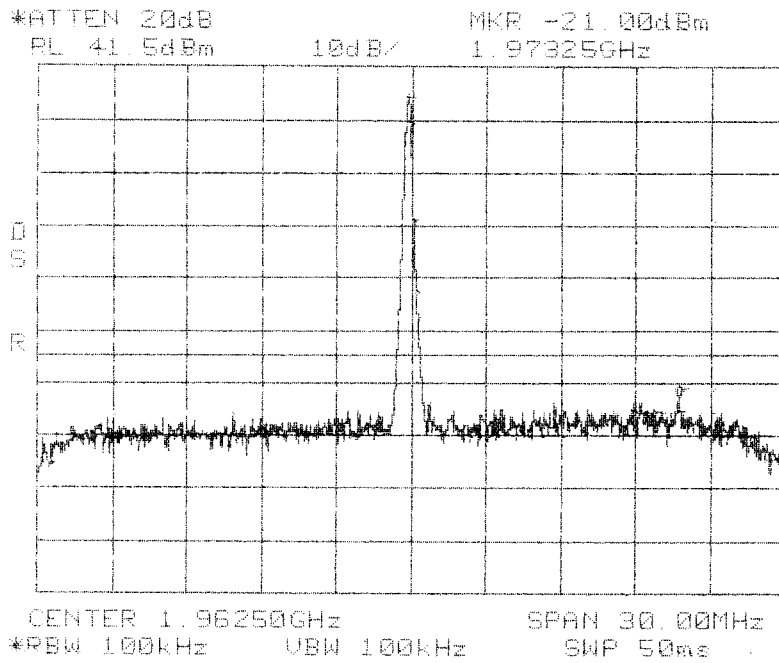


**Conducted Emissions  
High  
PCS 1900 MHz  
DBE Band**

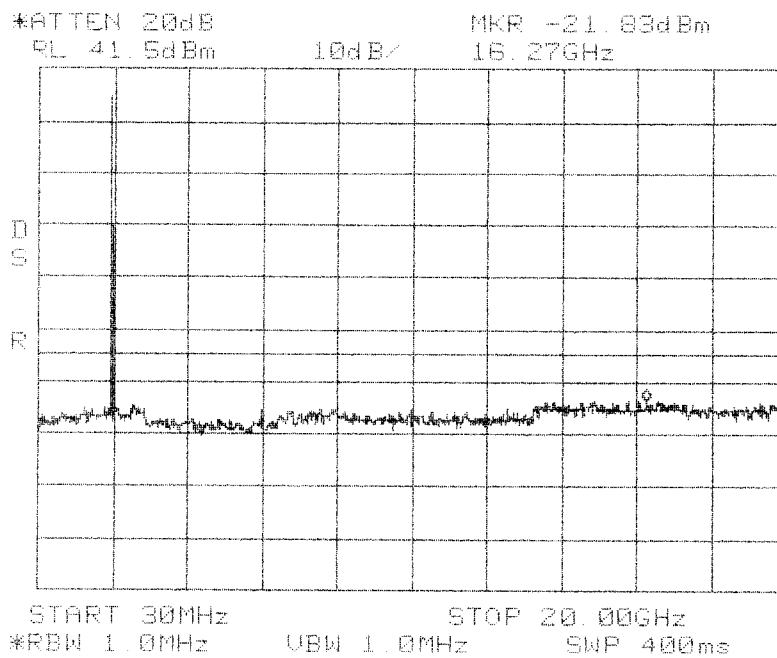
Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz



Center: 1962.5 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



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

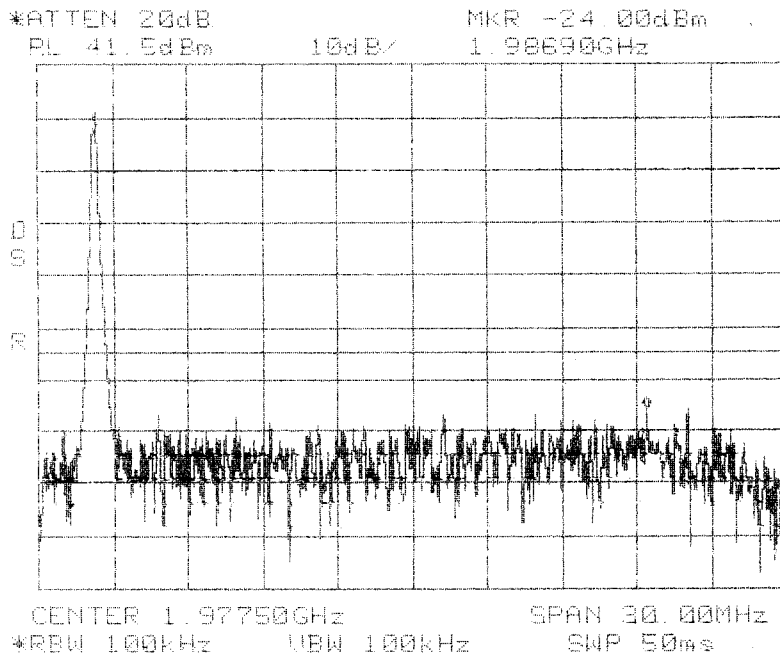


**Conducted Emissions  
Mid  
PCS 1900 MHz  
BEF Band**

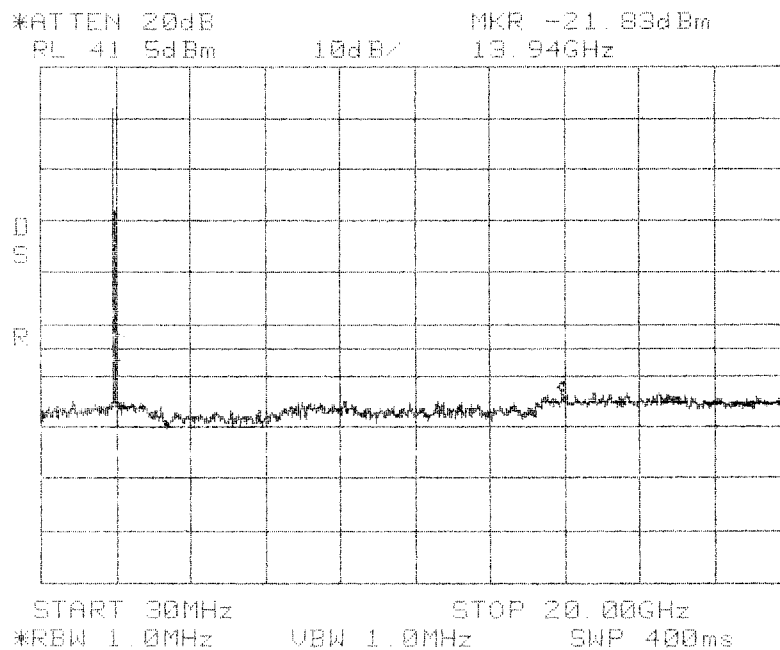
Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz



Center: 1977.5 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



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



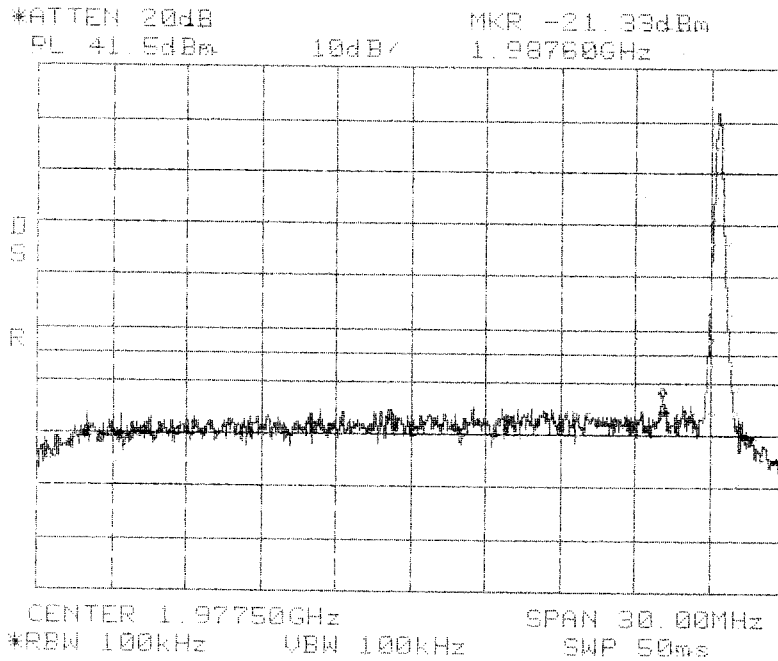
**Conducted Emissions  
Low  
PCS 1900 MHz  
EFC Band**

Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz

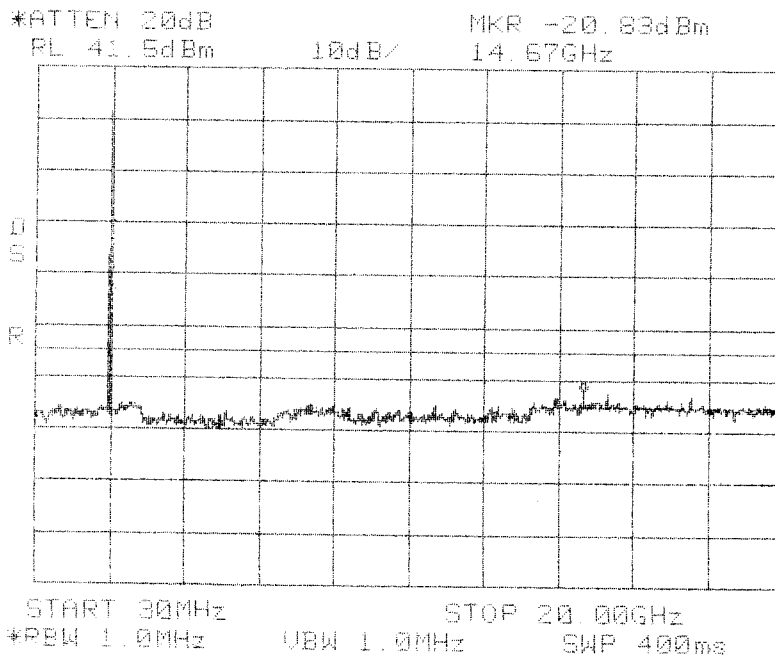




Center: 1977.5 MHz  
Span: 25 MHz  
RBW/VBW: 100 kHz



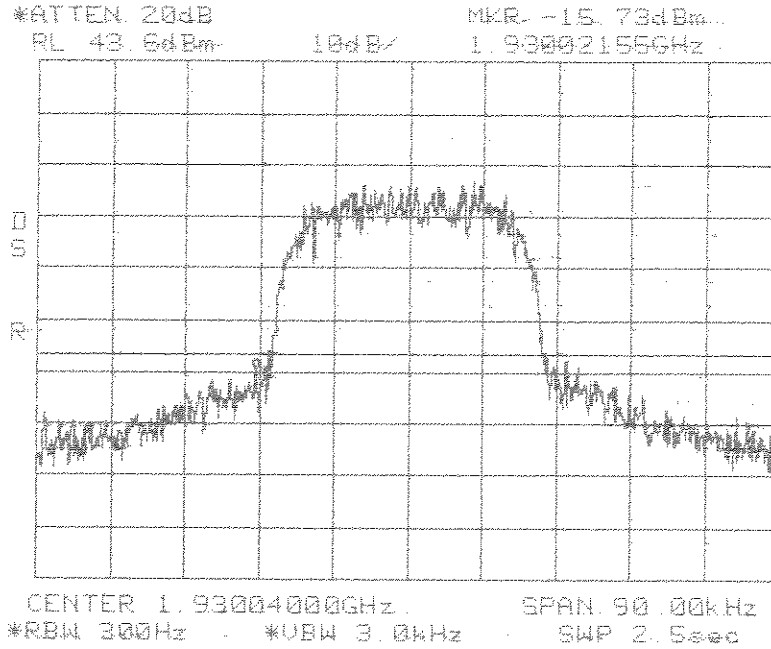
**Conducted Emissions  
High  
PCS 1900 MHz  
EFC Band**



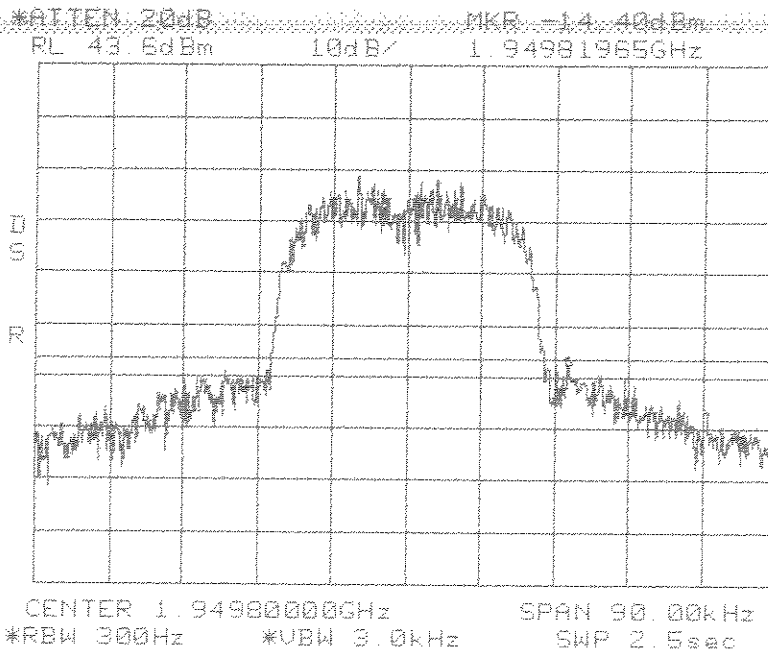
**Conducted Emissions  
High  
PCS 1900 MHz  
EFC Band**

Span: 30 MHz to 20 GHz  
RBW/VBW: 1 MHz

Center: 1930.04 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



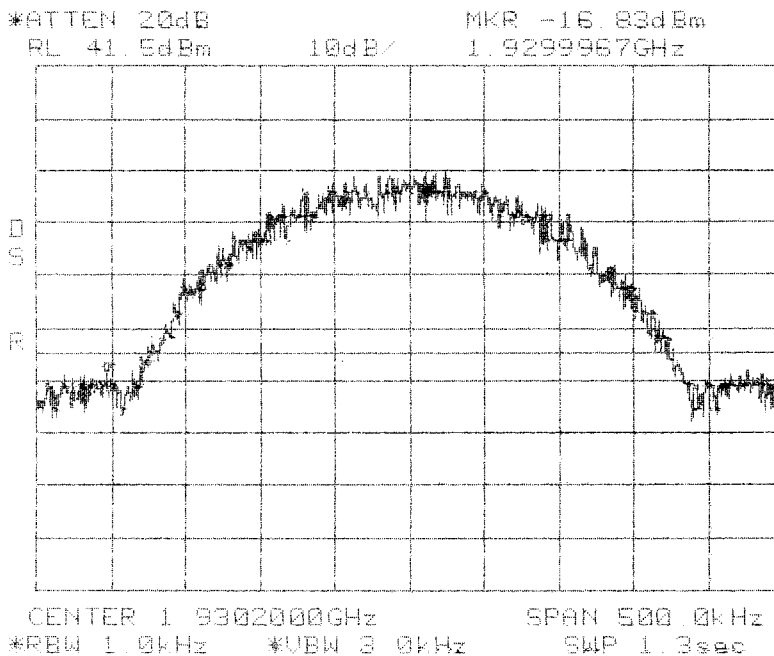
**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
AD Band**



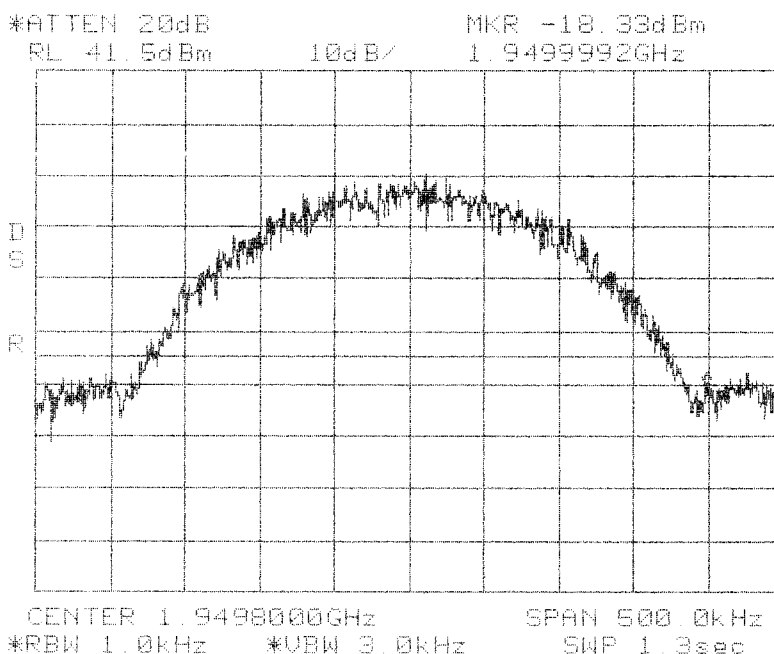
**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
AD Band**

Center: 1949.8 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz

Center: 1930.2 MHz  
Span: 100 kHz  
RBW/VBW: 300 Hz



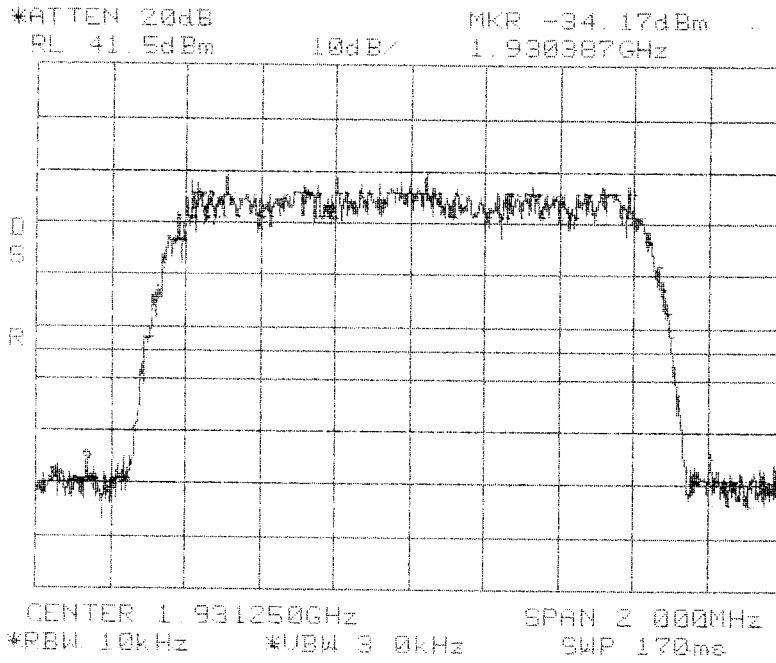
**Conducted Emissions  
Band Edge  
GSM  
PCS 1900 MHz  
AD Band**



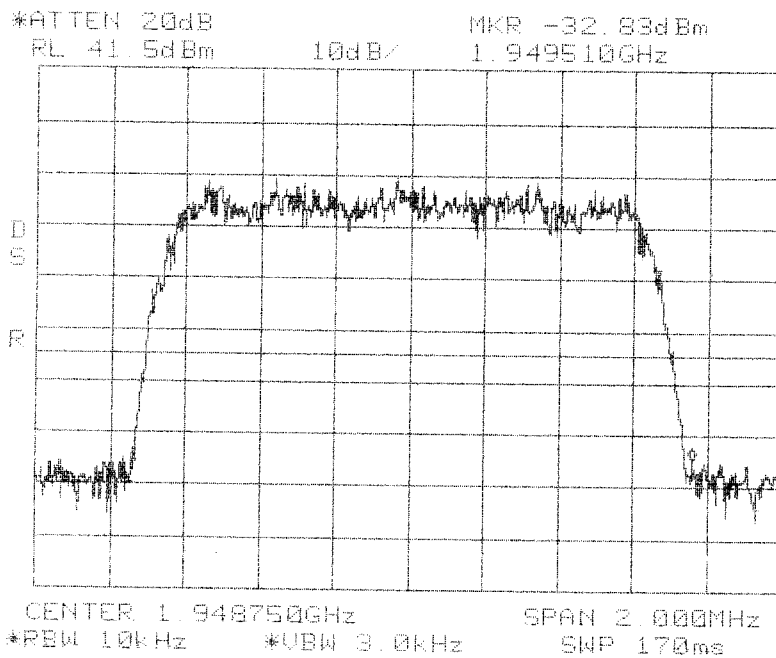
**Conducted Emissions  
Band Edge  
GSM  
PCS 1900 MHz  
AD Band**

Center: 1949.8 MHz  
Span: 100 kHz  
RBW/VBW: 300 Hz

Center: 1931.25 MHz  
Span: 2 MHz  
RBW/VBW: 10 kHz / 3 kHz



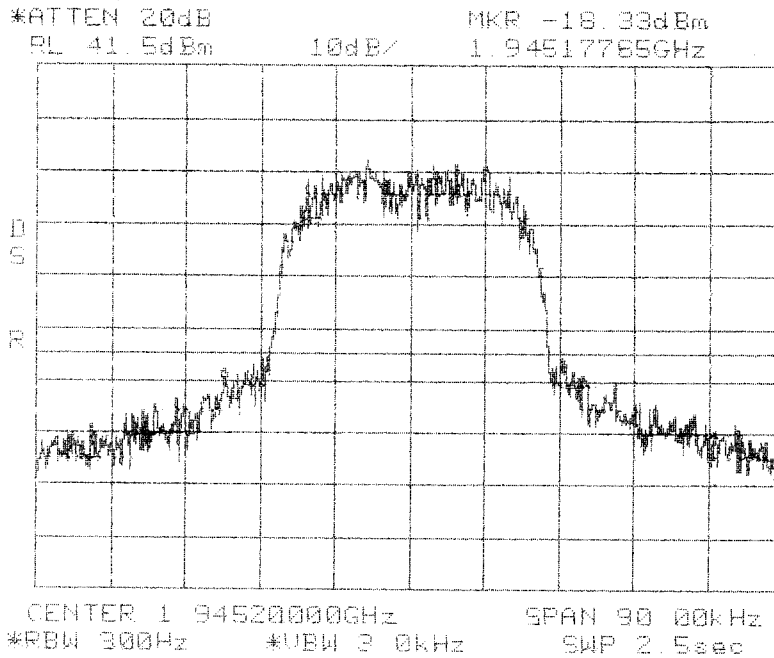
**Conducted Emissions  
Band Edge  
CDMA  
PCS 1900 MHz  
AD Band**



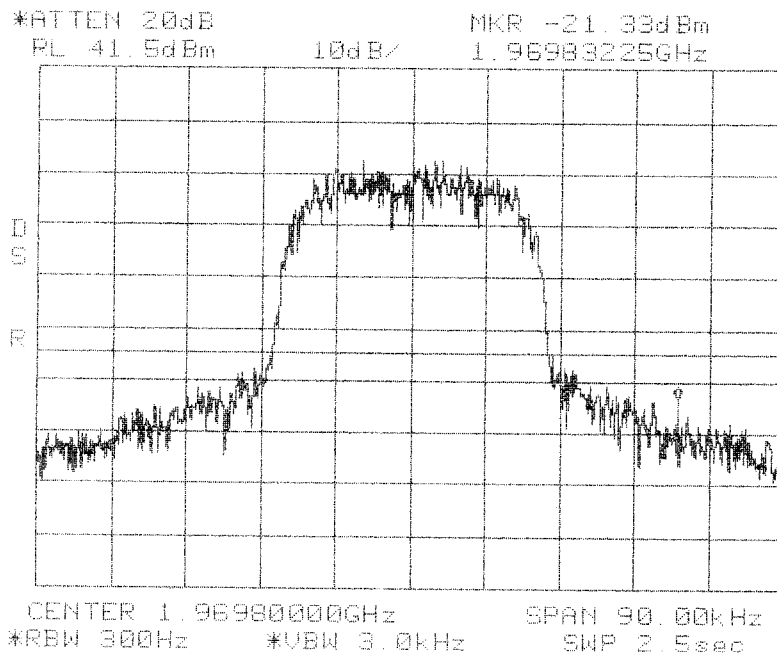
**Conducted Emissions  
Band Edge  
CDMA  
PCS 1900 MHz  
AD Band**

Center: 1948.75 MHz  
Span: 2 MHz  
RBW/VBW: 10 kHz / 3 kHz

Center: 1945.2 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



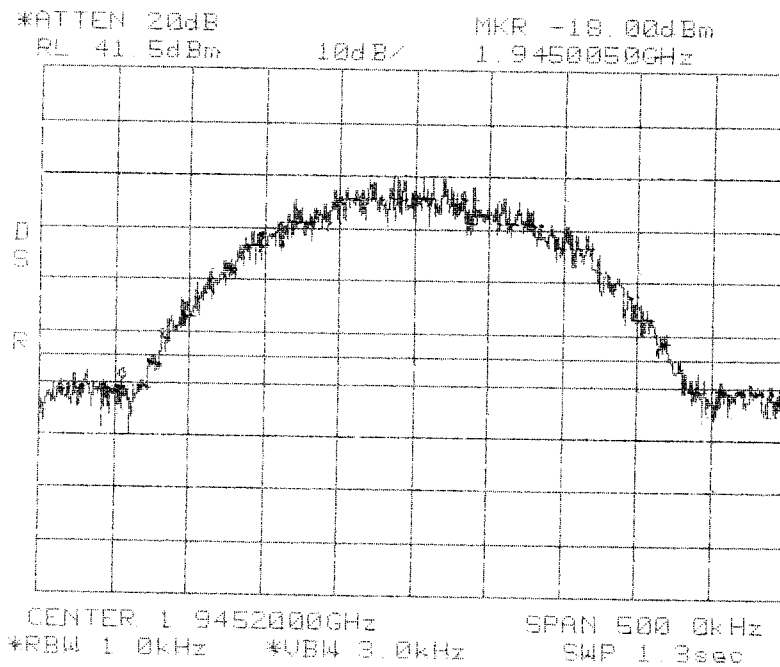
**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
DBE Band**



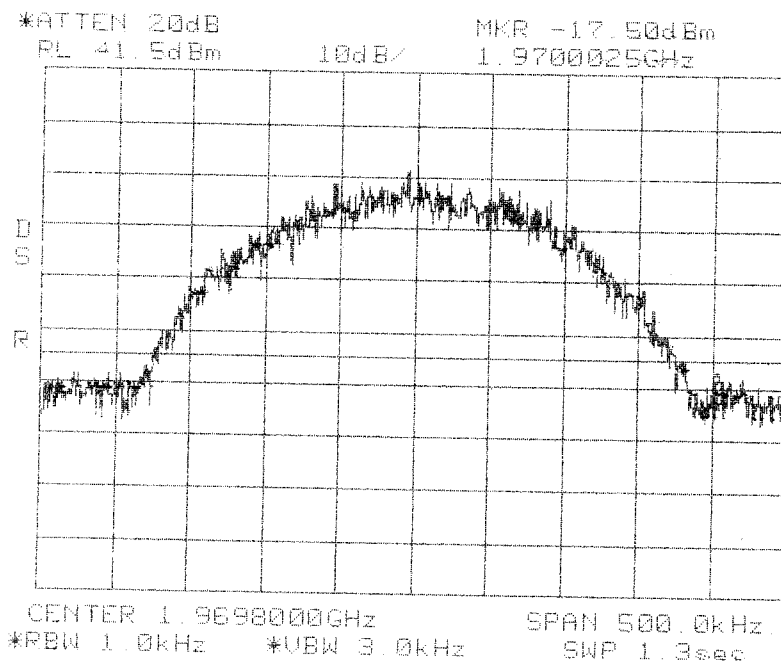
**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
DBE Band**

Center: 1969.8 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz

Center: 1945.2 MHz  
Span: 100 kHz  
RBW/VBW: 300 Hz



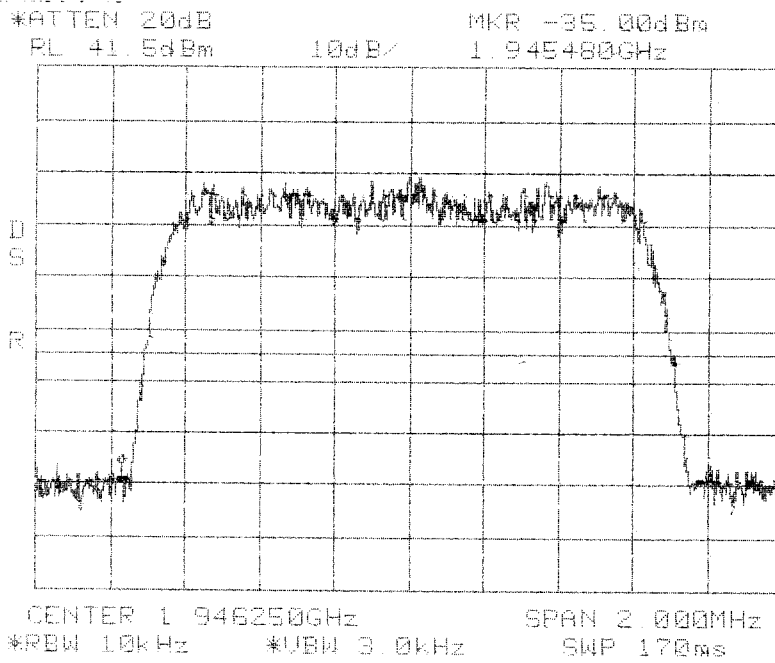
**Conducted Emissions  
Band Edge  
GSM  
PCS 1900 MHz  
DBE Band**



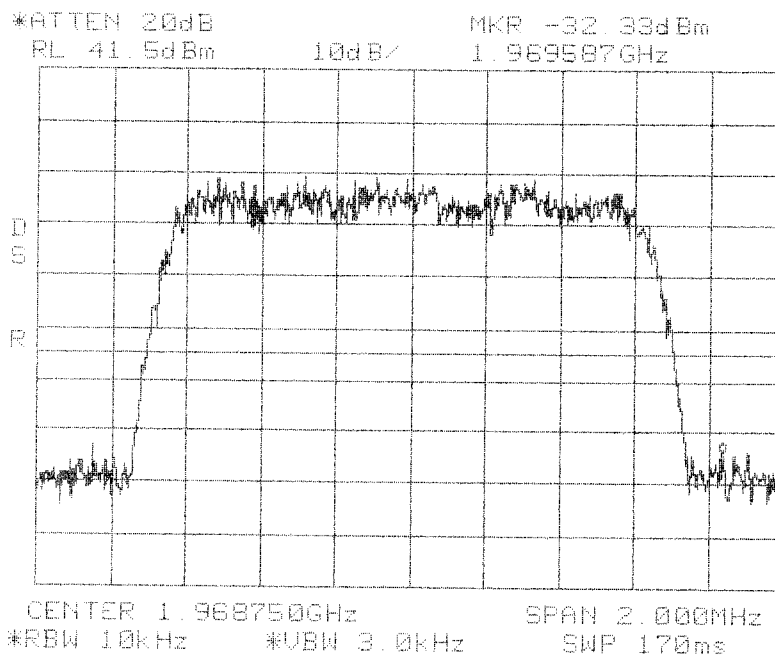
**Conducted Emissions  
Band Edge  
GSM  
PCS 1900 MHz  
DBE Band**

Center: 1969.8 MHz  
Span: 100 kHz  
RBW/VBW: 300 Hz

Center: 1946.25 MHz  
Span: 2 MHz  
RBW/VBW: 10 kHz / 3 kHz



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

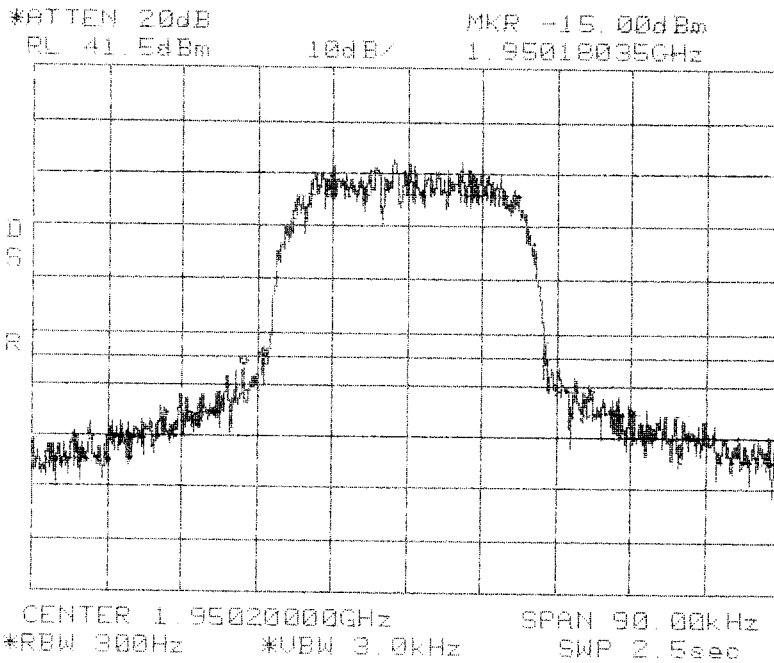


**Conducted Emissions  
Band Edge  
CDMA  
PCS 1900 MHz  
DBE Band**

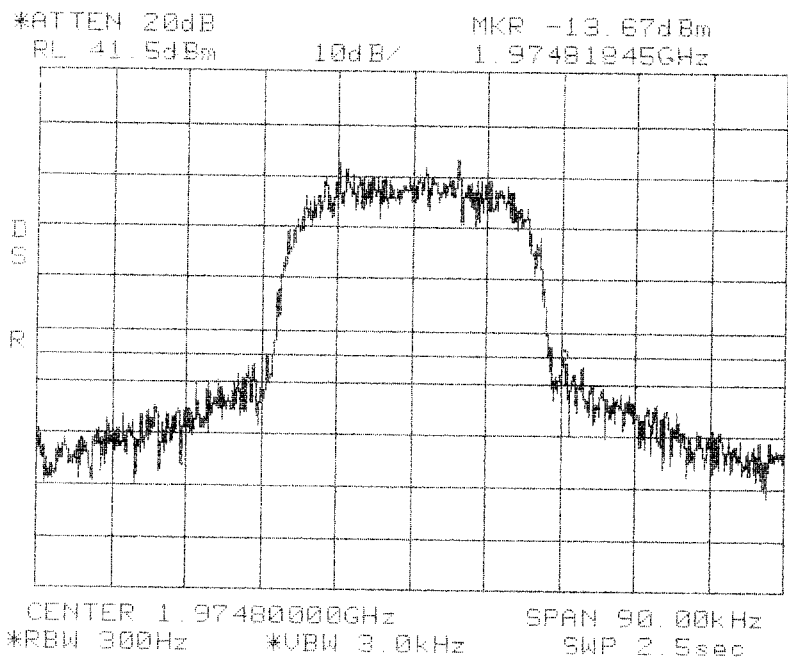
Center: 1968.75 MHz  
Span: 2 MHz  
RBW/VBW: 10 kHz / 3 kHz



Center: 1950.2 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



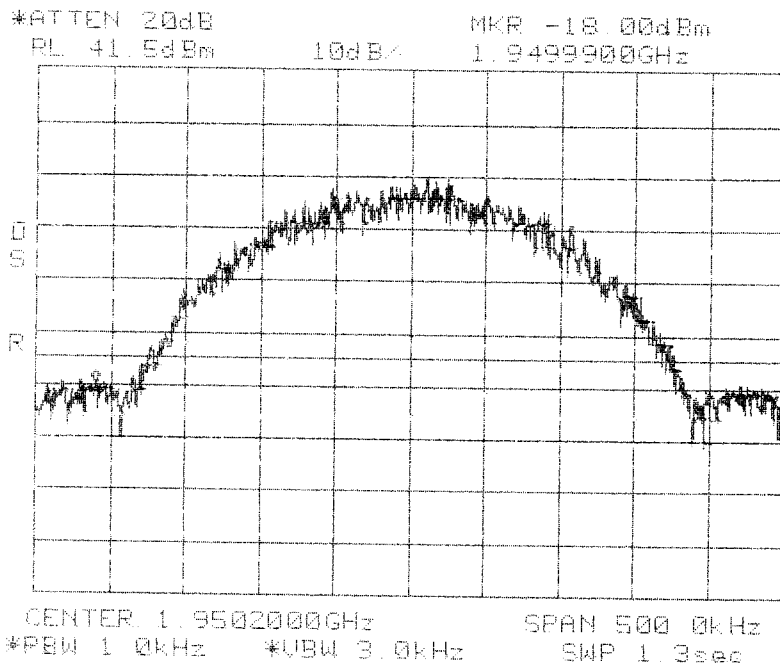
**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
BEF Band**



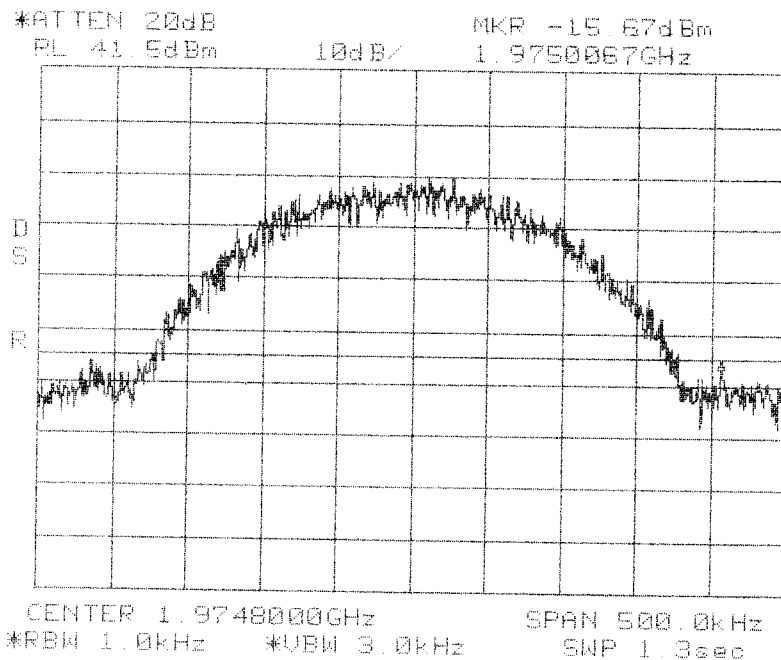
**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
BEF Band**

Center: 1974.8 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz

Center: 1950.2 MHz  
Span: 100 kHz  
RBW/VBW: 300 Hz



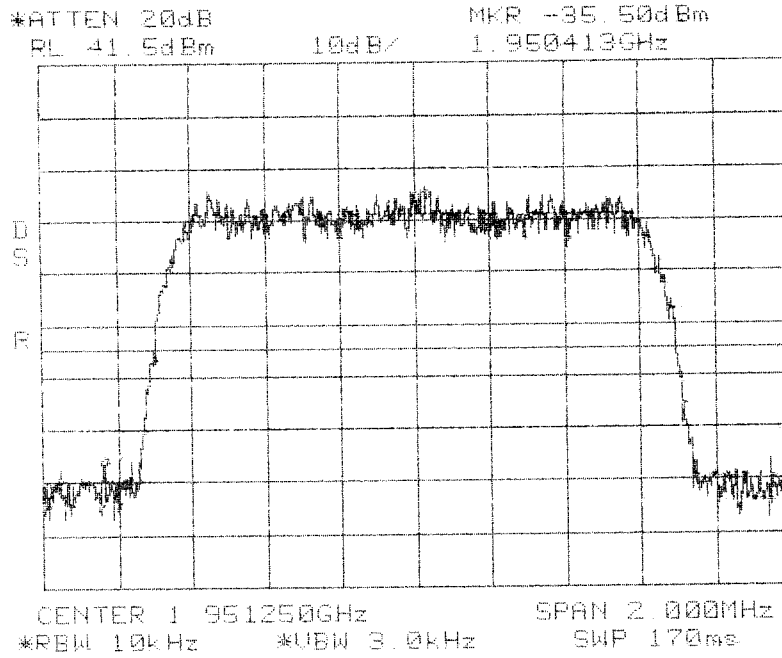
**Conducted Emissions  
Band Edge  
GSM  
PCS 1900 MHz  
BEF Band**



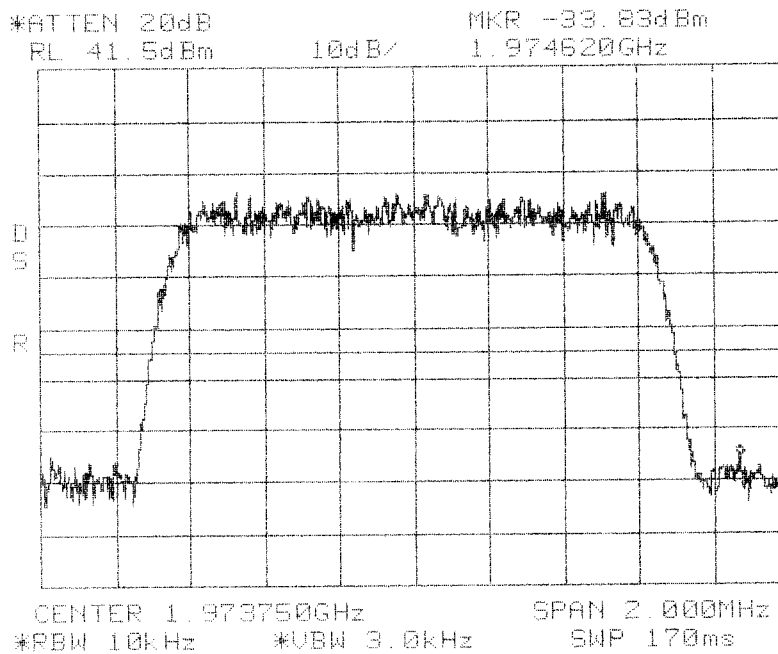
**Conducted Emissions  
Band Edge  
GSM  
PCS 1900 MHz  
BEF Band**

Center: 1974.8 MHz  
Span: 100 kHz  
RBW/VBW: 300 Hz

Center: 1951.25 MHz  
Span: 2 MHz  
RBW/VBW: 10 kHz / 3 kHz



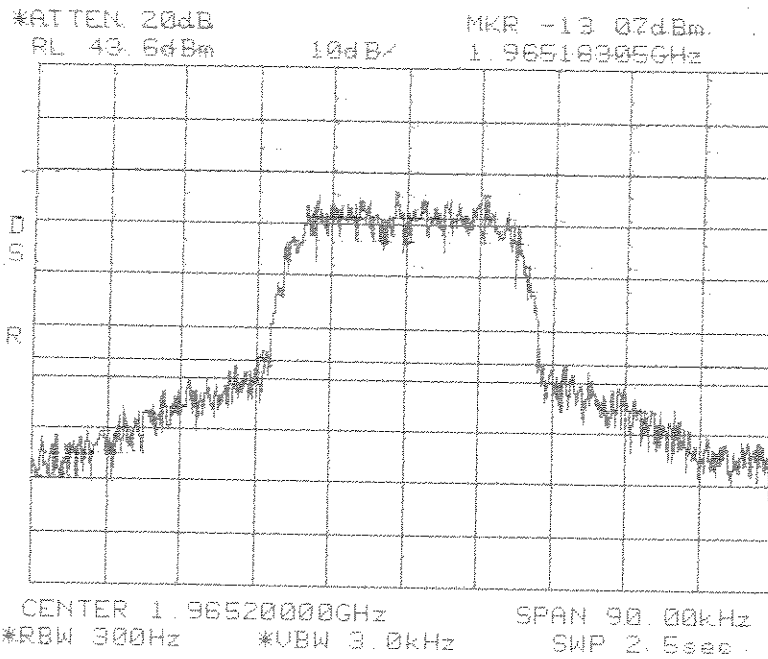
**Conducted Emissions  
Band Edge  
CDMA  
PCS 1900 MHz  
BEF Band**



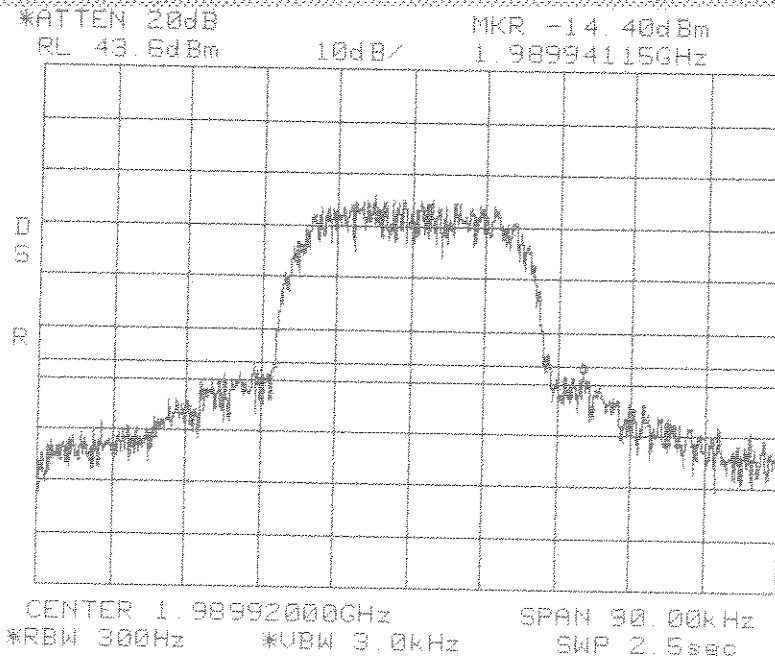
**Conducted Emissions  
Band Edge  
CDMA  
PCS 1900 MHz  
BEF Band**

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

Center: 1965.2 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
EFC Band**

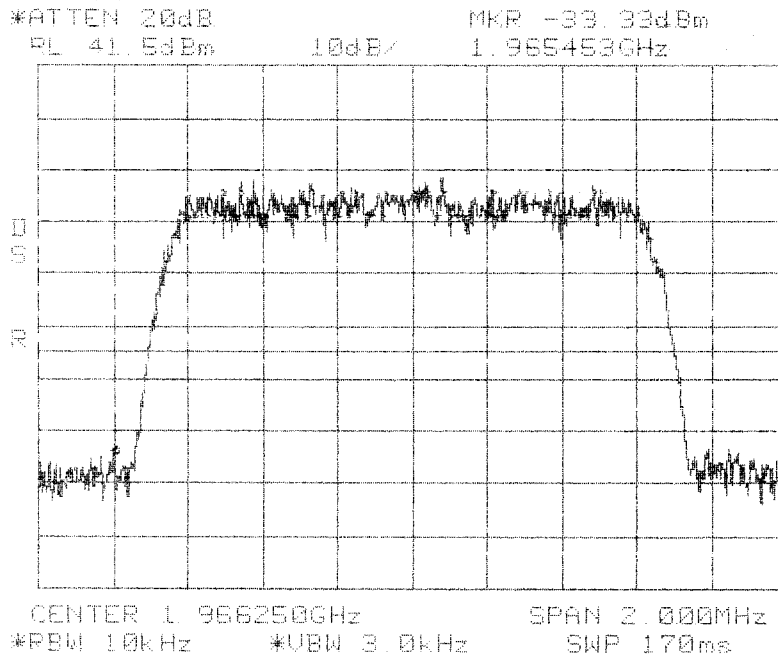


**Conducted Emissions  
Band Edge  
TDMA  
PCS 1900 MHz  
EFC Band**

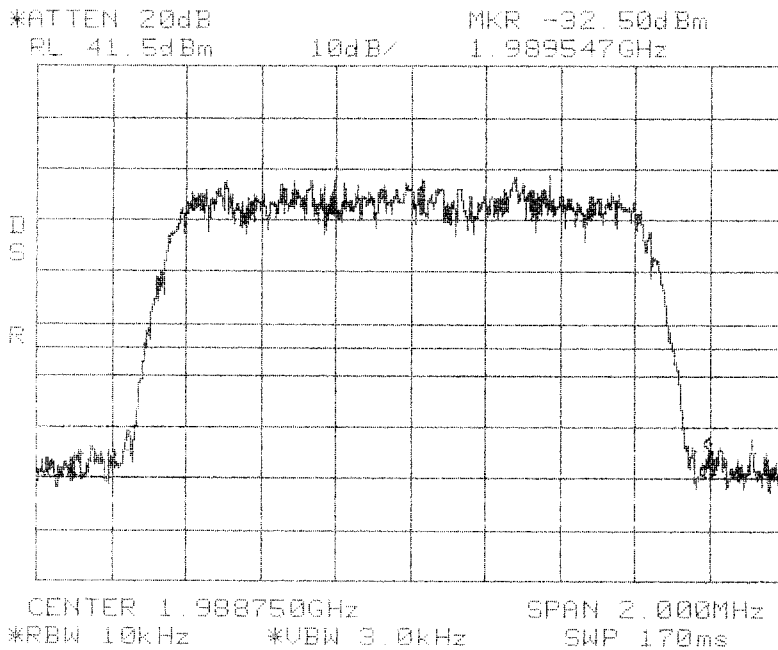
Center: 1989.92 MHz  
Span: 90 kHz  
RBW/VBW: 300 Hz / 3 kHz



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



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



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

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

Freq. (MHz)	Final (dBuV/m)	Matches Sig Gen Level (dBm)	Cable Loss (dB)	Dipole Ant. Gain (dB)	Matches 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
425.985	60.87	107.91	-47.04	0.019770
1978	56.84	107.91	-51.07	0.007816
1990	53.75	107.91	-54.16	0.003837
709.994	51.55	107.91	-56.36	0.002312
1970	51.38	107.91	-56.53	0.002223

# RADIATED EMISSIONS



Test Report #: WC505741 Run 1                      Test Area: LTS  
 EUT Model #: DGVC-451X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "B,E, & F" bands

Data File Name: 5741-1re.dat

Page: 1 of 6

## List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
Note! 1950 MHz Tx setting:						
31.566 MHz	41.95 Qp	0.44 / 20.4 / 27.34 / 0.0	35.45	V / 1.00 / 0	-72.46	-59.46
38.22 MHz	52.3 Qp	0.49 / 17.51 / 27.17 / 0.0	43.13	V / 1.00 / 0	-64.78	-51.78
38.706 MHz	51.4 Qp	0.49 / 17.32 / 27.15 / 0.0	42.06	V / 1.00 / 0	-65.85	-52.85
39.738 MHz	52.85 Qp	0.5 / 16.9 / 27.11 / 0.0	43.14	V / 1.00 / 0	-64.77	-51.77
44.82 MHz	58.9 Qp	0.6 / 15.35 / 27.06 / 0.0	47.79	V / 1.00 / 0	-60.12	-47.12
45.312 MHz	56.65 Qp	0.6 / 15.24 / 27.08 / 0.0	45.41	V / 1.00 / 0	-62.5	-49.5
57.042 MHz	50.9 Qp	0.6 / 12.49 / 27.0 / 0.0	36.99	V / 1.00 / 0	-70.92	-57.92
57.576 MHz	51.25 Qp	0.6 / 12.33 / 27.0 / 0.0	37.18	V / 1.00 / 0	-70.73	-57.73
58.116 MHz	56.45 Qp	0.6 / 12.17 / 27.0 / 0.0	42.22	V / 1.00 / 0	-65.69	-52.69
73.89 MHz	62.35 Qp	0.7 / 7.92 / 27.0 / 0.0	43.97	V / 1.00 / 0	-63.94	-50.94
74.41 MHz	61.45 Qp	0.7 / 7.82 / 27.0 / 0.0	42.97	V / 1.00 / 0	-64.94	-51.94
142.0 MHz	54.4 Qp	1.0 / 9.22 / 26.97 / 0.0	37.65	V / 1.00 / 0	-70.26	-57.26
213.0 MHz	38.15 Qp	1.21 / 10.53 / 27.11 / 0.0	22.78	V / 1.00 / 0	-85.13	-72.13
284.0 MHz	55.55 Qp	1.5 / 12.56 / 27.43 / 0.0	42.18	V / 1.00 / 0	-65.73	-52.73
355.0 MHz	51.2 Qp	1.6 / 14.65 / 27.6 / 0.0	39.85	V / 1.00 / 0	-68.06	-55.06
426.0 MHz	60.2 Qp	1.71 / 16.18 / 27.9 / 0.0	50.19	V / 1.00 / 0	-57.72	-44.72
497.0 MHz	47.25 Qp	1.9 / 17.39 / 27.93 / 0.0	38.61	V / 1.00 / 0	-69.3	-56.3
568.0 MHz	47.15 Qp	2.03 / 18.42 / 28.1 / 0.0	39.5	V / 1.00 / 0	-68.41	-55.41
639.0 MHz	42.1 Qp	2.1 / 19.5 / 28.2 / 0.0	35.5	V / 1.00 / 0	-72.41	-59.41
710.0 MHz	51.55 Qp	2.3 / 20.2 / 27.95 / 0.0	46.1	V / 1.00 / 0	-61.81	-48.81
781.0 MHz	33.35 Qp	2.39 / 21.54 / 27.83 / 0.0	29.45	V / 1.00 / 0	-78.46	-65.46
923.0 MHz	33.8 Qp	2.63 / 22.46 / 27.6 / 0.0	31.29	V / 1.00 / 0	-76.62	-63.62
994.0 MHz	38.05 Qp	2.73 / 22.66 / 27.57 / 0.0	35.88	V / 1.00 / 0	-72.03	-59.03
767.185 MHz	47.25 Qp	2.36 / 21.37 / 27.88 / 0.0	43.1	V / 1.00 / 0	-64.81	-51.81
511.341 MHz	53.65 Qp	1.9 / 17.75 / 27.98 / 0.0	45.33	V / 1.00 / 0	-62.58	-49.58

Tested by: Michael Schultz

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Reviewed by: Greg Jakubowski

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Signature



# RADIATED EMISSIONS



Test Report #: WC505741 Run 1                      Test Area: LTS  
 EUT Model #: DGVC-451X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "B,E, & F" bands

Data File Name: 5741-1re.dat

Page: 2 of 6

## List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
639.004 MHz	42.15 Qp	2.1 / 19.5 / 28.2 / 0.0	35.55	V / 1.00 / 0	-72.36	-59.36
254.664 MHz	54.1 Qp	1.37 / 12.03 / 27.2 / 0.0	40.3	V / 1.00 / 0	-67.61	-54.61
44.8 MHz maxed:						
44.82 MHz	64.65 Qp	0.6 / 15.35 / 27.06 / 0.0	53.54	V / 1.10 / 0	-54.37	-41.37
212.982 MHz	44.9 Qp	1.21 / 10.53 / 27.11 / 0.0	29.53	V / 1.10 / 0	-78.38	-65.38
497.0 MHz	50.95 Qp	1.9 / 17.39 / 27.93 / 0.0	42.31	V / 1.10 / 0	-65.6	-52.6
710 MHz maxed:						
710.0 MHz	55.3 Qp	2.3 / 20.2 / 27.95 / 0.0	49.85	V / 1.00 / 95	-58.06	-45.06
709.958 MHz	56.45 Qp	2.3 / 20.2 / 27.95 / 0.0	51.0	V / 1.00 / 95	-56.91	-43.91
923.0 MHz	43.05 Qp	2.63 / 22.46 / 27.6 / 0.0	40.54	V / 1.00 / 95	-67.37	-54.37
994.0 MHz	50.1 Qp	2.73 / 22.66 / 27.57 / 0.0	47.93	V / 1.00 / 95	-59.98	-46.98
639.004 MHz	49.65 Qp	2.1 / 19.5 / 28.2 / 0.0	43.05	V / 1.00 / 95	-64.86	-51.86
497.0 MHz	58.6 Qp	1.9 / 17.39 / 27.93 / 0.0	49.96	V / 1.00 / 95	-57.95	-44.95
426.0 MHz	62.65 Qp	1.71 / 16.18 / 27.9 / 0.0	52.64	V / 1.00 / 95	-55.27	-42.27
284.0 MHz	57.25 Qp	1.5 / 12.56 / 27.43 / 0.0	43.88	V / 1.00 / 95	-64.03	-51.03
509.244 MHz	61.7 Qp	1.9 / 17.69 / 27.97 / 0.0	53.32	V / 1.00 / 95	-54.59	-41.59
425 MHz maxed:						
425.955 MHz	71.7 Qp	1.71 / 16.18 / 27.9 / 0.0	61.69	V / 1.32 / 270	-46.22	-33.22
38.22 MHz	55.35 Qp	0.49 / 17.51 / 27.17 / 0.0	46.18	V / 1.32 / 270	-61.73	-48.73
45.312 MHz	59.7 Qp	0.6 / 15.24 / 27.08 / 0.0	48.46	V / 1.32 / 270	-59.45	-46.45
57.042 MHz	55.15 Qp	0.6 / 12.49 / 27.0 / 0.0	41.24	V / 1.32 / 270	-66.67	-53.67
57.576 MHz	55.3 Qp	0.6 / 12.33 / 27.0 / 0.0	41.23	V / 1.32 / 270	-66.68	-53.68
142.0 MHz	59.55 Qp	1.0 / 9.22 / 26.97 / 0.0	42.8	V / 1.32 / 270	-65.11	-52.11
254.664 MHz	55.3 Qp	1.37 / 12.03 / 27.2 / 0.0	41.5	V / 1.32 / 270	-66.41	-53.41

Tested by: Michael Schultz

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Reviewed by: Greg Jakubowski

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 1                      Test Area: LTS  
 EUT Model #: DGVC-451X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz


Notes: "B,E, & F" bands

Data File Name: 5741-1re.dat                      Page: 3 of 6

## List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
426 MHz maxed:						
425.955 MHz	70.2 Qp	1.71 / 16.18 / 27.9 / 0.0	60.19	H / 1.00 / 49	-47.72	-34.72
284.0 MHz	58.05 Qp	1.5 / 12.56 / 27.43 / 0.0	44.68	H / 1.00 / 49	-63.23	-50.23
355.0 MHz	54.1 Qp	1.6 / 14.65 / 27.6 / 0.0	42.75	H / 1.00 / 49	-65.16	-52.16
510.056 MHz	49.0 Qp	1.9 / 17.7 / 27.97 / 0.0	40.63	H / 1.00 / 49	-67.28	-54.28
142 MHz maxed:						
141.982 MHz	58.85 Qp	1.0 / 9.22 / 26.97 / 0.0	42.09	H / 1.16 / 226	-65.82	-52.82
NOTE! 1967.5 MHz Tx setting:						
141.955 MHz	59.65 Qp	1.0 / 9.21 / 26.97 / 0.0	42.89	H / 1.16 / 226	-65.02	-52.02
425.955 MHz	70.15 Qp	1.71 / 16.18 / 27.9 / 0.0	60.14	H / 1.00 / 51	-47.77	-34.77
426 MHz maxed:						
425.955 MHz	70.9 Qp	1.71 / 16.18 / 27.9 / 0.0	60.89	V / 1.30 / 280	-47.02	-34.02
NOTE! 1975 MHz Tx setting:						
425.955 MHz	70.8 Qp	1.71 / 16.18 / 27.9 / 0.0	60.79	V / 1.30 / 280	-47.12	-34.12
781.0 MHz	36.4 Qp	2.39 / 21.54 / 27.83 / 0.0	32.5	V / 1.30 / 280	-75.41	-62.41
764.5 MHz	38.2 Qp	2.36 / 21.34 / 27.89 / 0.0	34.01	V / 1.30 / 280	-73.9	-60.9
425.955 MHz	69.2 Qp	1.71 / 16.18 / 27.9 / 0.0	59.19	H / 1.00 / 49	-48.72	-35.72
1.065 GHz	56.1 Pk	2.83 / 25.59 / 49.22 / 0.0	35.3	H / 1.00 / 49	-72.61	-59.61
1.136 GHz	58.0 Pk	2.93 / 25.51 / 49.55 / 0.0	36.88	H / 1.00 / 49	-71.03	-58.03
1.207 GHz	51.25 Pk	3.01 / 25.43 / 49.62 / 0.0	30.07	H / 1.00 / 49	-77.84	-64.84
1.278 GHz	55.0 Pk	3.1 / 25.35 / 49.25 / 0.0	34.19	H / 1.00 / 49	-73.72	-60.72
1.349 GHz	52.4 Pk	3.18 / 25.27 / 49.37 / 0.0	31.47	H / 1.00 / 49	-76.44	-63.44

Tested by: Michael Schultz  
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 Signature

Reviewed by: Greg Jakubowski  
 \_\_\_\_\_  
 Printed

  
 \_\_\_\_\_  
 Signature

# RADIATED EMISSIONS



Test Report #: WC505741 Run 1                      Test Area: LTS  
 EUT Model #: DGVC-451X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "B,E, & F" bands

Data File Name: 5741-1re.dat

Page: 4 of 6

## List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.42 GHz	56.9 Pk	3.3 / 25.19 / 49.65 / 0.0	35.73	H / 1.00 / 49	-72.18	-59.18
1.846 GHz	61.3 Pk	3.83 / 27.27 / 49.79 / 0.0	42.61	H / 1.00 / 49	-65.3	-52.3
1.988 GHz	54.6 Pk	3.9 / 28.17 / 49.65 / 0.0	37.01	H / 1.00 / 49	-70.9	-57.9
2.698 GHz	49.1 Pk	4.48 / 29.21 / 48.26 / 0.0	34.53	H / 1.00 / 49	-73.38	-60.38
2.84 GHz	47.05 Pk	4.6 / 29.62 / 48.37 / 0.0	32.9	H / 1.00 / 49	-75.01	-62.01
3.55 GHz	45.0 Pk	5.38 / 31.31 / 47.17 / 0.0	34.53	H / 1.00 / 49	-73.38	-60.38
1.277 GHz maxed:						
1.278 GHz	72.35 Pk	3.1 / 25.35 / 49.25 / 0.0	51.54	V / 1.20 / 50	-56.37	-43.37
1.136 GHz	62.6 Pk	2.93 / 25.51 / 49.55 / 0.0	41.48	V / 1.20 / 50	-66.43	-53.43
1.207 GHz	63.1 Pk	3.01 / 25.43 / 49.62 / 0.0	41.92	V / 1.20 / 50	-65.99	-52.99
1.349 GHz	55.75 Pk	3.18 / 25.27 / 49.37 / 0.0	34.82	V / 1.20 / 50	-73.09	-60.09
1.42 GHz	66.35 Pk	3.3 / 25.19 / 49.65 / 0.0	45.18	V / 1.20 / 50	-62.73	-49.73
1.633 GHz	56.45 Pk	3.55 / 25.93 / 49.58 / 0.0	36.35	V / 1.20 / 50	-71.56	-58.56
1.704 GHz	51.6 Pk	3.62 / 26.38 / 49.76 / 0.0	31.84	V / 1.20 / 50	-76.07	-63.07
1.775 GHz	55.05 Pk	3.74 / 26.83 / 49.67 / 0.0	35.95	V / 1.20 / 50	-71.96	-58.96
1.846 GHz	53.1 Pk	3.83 / 27.27 / 49.79 / 0.0	34.41	V / 1.20 / 50	-73.5	-60.5
1.917 GHz	62.85 Pk	3.88 / 27.72 / 49.91 / 0.0	44.54	V / 1.20 / 50	-63.37	-50.37
1.975 GHz	50.8 Pk	3.9 / 28.08 / 49.7 / 0.0	33.08	V / 1.20 / 50	-74.83	-61.83
1.988 GHz	59.85 Pk	3.9 / 28.17 / 49.65 / 0.0	42.26	V / 1.20 / 50	-65.65	-52.65
2.13 GHz	57.65 Pk	3.97 / 28.34 / 49.41 / 0.0	40.56	V / 1.20 / 50	-67.35	-54.35
2.272 GHz	50.4 Pk	4.15 / 28.46 / 49.07 / 0.0	33.94	V / 1.20 / 50	-73.97	-60.97
3.266 GHz	46.5 Pk	5.0 / 30.67 / 47.55 / 0.0	34.62	V / 1.20 / 50	-73.29	-60.29
Maximized Horizontal frequencies 1-19.9 GHz 1975 MHz Tx setting						
1.846 GHz	64.27 Av	3.83 / 27.27 / 49.79 / 0.0	45.58	H / 1.20 / 130	-62.33	-49.33

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# RADIATED EMISSIONS



America

Test Report #: WC505741 Run 1                      Test Area: LTS

EUT Model #: DGVC-451X0000100SYS                      Date: 11/8/2005

EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C

Test Method: FCC Part 24                      Air Pressure: 98.0 kPa

Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "B,E, & F" bands

Data File Name: 5741-1re.dat                      Page: 5 of 6

## List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.988 GHz	57.93 Av	3.9 / 28.17 / 49.65 / 0.0	40.34	H / 1.50 / 185	-67.57	-54.57
<b>Note 1967.5 MHz Tx setting</b>						
<b>Maximized Vertical frequencies 1-19.9 GHz 1967.5 MHz Tx setting</b>						
1.278 GHz	71.39 Av	3.1 / 25.35 / 49.25 / 0.0	50.58	V / 1.20 / 50	-57.33	-44.33
1.42 GHz	65.81 Av	3.3 / 25.19 / 49.65 / 0.0	44.64	V / 1.20 / 50	-63.27	-50.27
<b>Maximized Horizontal frequencies 1-19.9 GHz 1967.5 MHz Tx setting</b>						
1.846 GHz	64.07 Av	3.83 / 27.27 / 49.79 / 0.0	45.38	H / 1.20 / 130	-62.53	-49.53
1.988 GHz	57.88 Av	3.9 / 28.17 / 49.65 / 0.0	40.29	H / 1.20 / 211	-67.62	-54.62
<b>Note 1950 MHz Tx setting</b>						
<b>Maximized Horizontal frequencies 1-19.9 GHz 1950 MHz Tx setting</b>						
1.988 GHz	58.23 Av	3.9 / 28.17 / 49.65 / 0.0	40.64	H / 1.20 / 211	-67.27	-54.27
1.846 GHz	64.59 Av	3.83 / 27.27 / 49.79 / 0.0	45.9	H / 1.20 / 130	-62.01	-49.01
<b>Maximized Vertical frequencies 1-19.9 GHz 1950 MHz Tx setting</b>						
1.278 GHz	71.33 Av	3.1 / 25.35 / 49.25 / 0.0	50.52	V / 1.15 / 50	-57.39	-44.39
1.42 GHz	67.03 Av	3.3 / 25.19 / 49.65 / 0.0	45.86	V / 1.00 / 50	-62.05	-49.05
<b>Scan complete 30-19900 MHz</b>						

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# RADIATED EMISSIONS



America

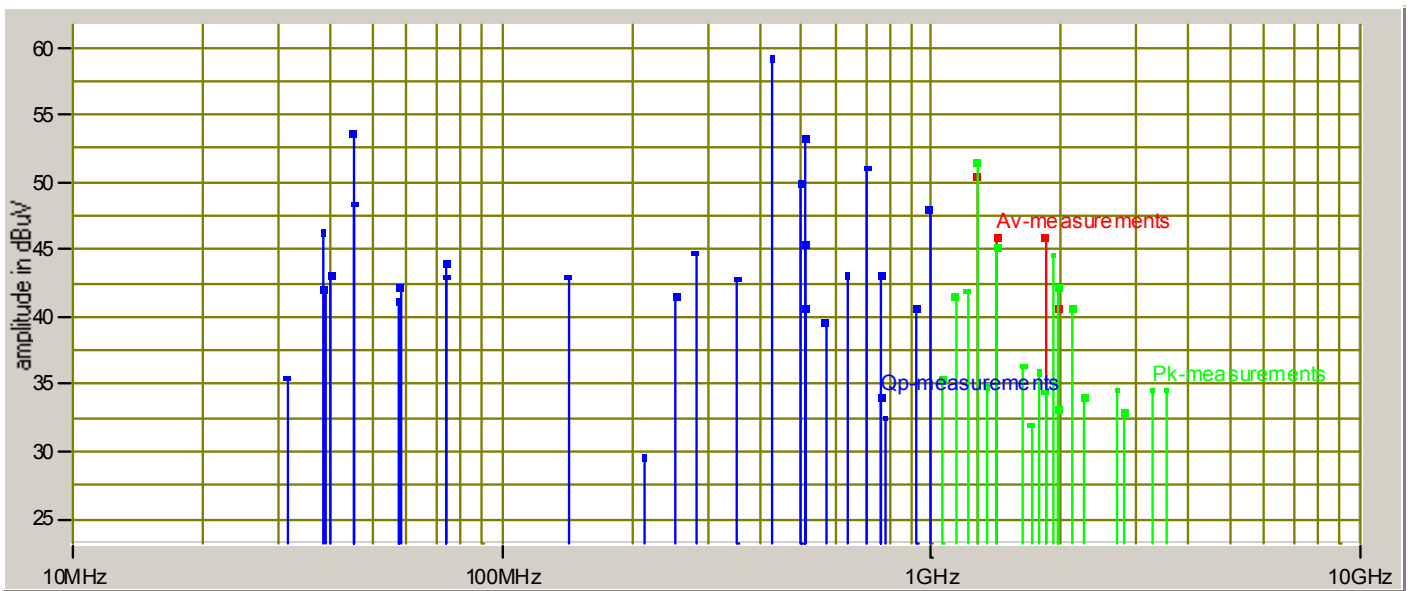
Test Report #: WC505741 Run 1 Test Area: LTS  
EUT Model #: DGVC-451X0000100SYS Date: 11/8/2005  
EUT Serial #: n/a EUT Power: 60 Hz / 120 VAC Temperature: 22.0 °C  
Test Method: FCC Part 24 Air Pressure: 98.0 kPa  
Customer: ADC Telecommunications Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "B,E, & F" bands

Data File Name: 5741-1re.dat Page: 6 of 6

## Graph:



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# RADIATED EMISSIONS



Test Report #: WC505741 Run 2                      Test Area: LTS  
 EUT Model #: DGVC-461X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands

Data File Name: 5741.dat

Page: 1 of 9

## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
Note 1965 MHz Tx setting						
31.566 MHz	43.5 Qp	0.44 / 20.4 / 27.34 / 0.0	37.0	V / 1.00 / 0	-70.91	-57.91
38.22 MHz	54.0 Qp	0.49 / 17.51 / 27.17 / 0.0	44.83	V / 1.00 / 0	-63.08	-50.08
38.706 MHz	48.9 Qp	0.49 / 17.32 / 27.15 / 0.0	39.56	V / 1.00 / 0	-68.35	-55.35
39.738 MHz	49.9 Qp	0.5 / 16.9 / 27.11 / 0.0	40.19	V / 1.00 / 0	-67.72	-54.72
44.82 MHz	58.25 Qp	0.6 / 15.35 / 27.06 / 0.0	47.14	V / 1.00 / 0	-60.77	-47.77
45.312 MHz	57.05 Qp	0.6 / 15.24 / 27.08 / 0.0	45.81	V / 1.00 / 0	-62.1	-49.1
57.042 MHz	53.55 Qp	0.6 / 12.49 / 27.0 / 0.0	39.64	V / 1.00 / 0	-68.27	-55.27
57.576 MHz	53.45 Qp	0.6 / 12.33 / 27.0 / 0.0	39.38	V / 1.00 / 0	-68.53	-55.53
58.116 MHz	55.5 Qp	0.6 / 12.17 / 27.0 / 0.0	41.27	V / 1.00 / 0	-66.64	-53.64
74.41 MHz	55.85 Qp	0.7 / 7.82 / 27.0 / 0.0	37.37	V / 1.00 / 0	-70.54	-57.54
212.982 MHz	37.85 Qp	1.21 / 10.53 / 27.11 / 0.0	22.48	V / 1.00 / 0	-85.43	-72.43
284.0 MHz	48.9 Qp	1.5 / 12.56 / 27.43 / 0.0	35.53	V / 1.00 / 0	-72.38	-59.38
355.0 MHz	37.45 Qp	1.6 / 14.65 / 27.6 / 0.0	26.1	V / 1.00 / 0	-81.81	-68.81
497.0 MHz	45.05 Qp	1.9 / 17.39 / 27.93 / 0.0	36.41	V / 1.00 / 0	-71.5	-58.5
509.244 MHz	25.85 Qp	1.9 / 17.69 / 27.97 / 0.0	17.47	V / 1.00 / 0	-90.44	-77.44
510.056 MHz	24.6 Qp	1.9 / 17.7 / 27.97 / 0.0	16.23	V / 1.00 / 0	-91.68	-78.68
511.341 MHz	24.5 Qp	1.9 / 17.75 / 27.98 / 0.0	16.18	V / 1.00 / 0	-91.73	-78.73
568.0 MHz	37.55 Qp	2.03 / 18.42 / 28.1 / 0.0	29.9	V / 1.00 / 0	-78.01	-65.01
639.004 MHz	37.5 Qp	2.1 / 19.5 / 28.2 / 0.0	30.9	V / 1.00 / 0	-77.01	-64.01
709.994 MHz	46.7 Qp	2.3 / 20.2 / 27.95 / 0.0	41.25	V / 1.00 / 0	-66.66	-53.66
764.5 MHz	22.8 Qp	2.36 / 21.34 / 27.89 / 0.0	18.61	V / 1.00 / 0	-89.3	-76.3
767.185 MHz	21.85 Qp	2.36 / 21.37 / 27.88 / 0.0	17.7	V / 1.00 / 0	-90.21	-77.21
781.0 MHz	32.9 Qp	2.39 / 21.54 / 27.83 / 0.0	29.0	V / 1.00 / 0	-78.91	-65.91
923.0 MHz	26.9 Qp	2.63 / 22.46 / 27.6 / 0.0	24.39	V / 1.00 / 0	-83.52	-70.52
994.0 MHz	35.7 Qp	2.73 / 22.66 / 27.57 / 0.0	33.53	V / 1.00 / 0	-74.38	-61.38

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Test Report #: WC505741 Run 2                      Test Area: LTS  
 EUT Model #: DGVC-461X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands

Data File Name: 5741.dat

Page: 2 of 9

## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
38.706 MHz	49.65 Qp	0.49 / 17.32 / 27.15 / 0.0	40.31	V / 1.00 / 45	-67.6	-54.6
39.738 MHz	52.3 Qp	0.5 / 16.9 / 27.11 / 0.0	42.59	V / 1.00 / 45	-65.32	-52.32
141.985 MHz	51.2 Qp	1.0 / 9.22 / 26.97 / 0.0	34.44	V / 1.00 / 45	-73.47	-60.47
284.0 MHz	55.8 Qp	1.5 / 12.56 / 27.43 / 0.0	42.43	V / 1.00 / 45	-65.48	-52.48
355.0 MHz	50.2 Qp	1.6 / 14.65 / 27.6 / 0.0	38.85	V / 1.00 / 45	-69.06	-56.06
497.0 MHz	48.1 Qp	1.9 / 17.39 / 27.93 / 0.0	39.46	V / 1.00 / 45	-68.45	-55.45
509.244 MHz	46.55 Qp	1.9 / 17.69 / 27.97 / 0.0	38.17	V / 1.00 / 45	-69.74	-56.74
510.056 MHz	33.0 Qp	1.9 / 17.7 / 27.97 / 0.0	24.63	V / 1.00 / 45	-83.28	-70.28
511.341 MHz	25.35 Qp	1.9 / 17.75 / 27.98 / 0.0	17.03	V / 1.00 / 45	-90.88	-77.88
639.004 MHz	41.65 Qp	2.1 / 19.5 / 28.2 / 0.0	35.05	V / 1.00 / 45	-72.86	-59.86
767.185 MHz	22.0 Qp	2.36 / 21.37 / 27.88 / 0.0	17.85	V / 1.00 / 45	-90.06	-77.06
781.0 MHz	35.85 Qp	2.39 / 21.54 / 27.83 / 0.0	31.95	V / 1.00 / 45	-75.96	-62.96
923.0 MHz	36.0 Qp	2.63 / 22.46 / 27.6 / 0.0	33.49	V / 1.00 / 45	-74.42	-61.42
994.0 MHz	38.5 Qp	2.73 / 22.66 / 27.57 / 0.0	36.33	V / 1.00 / 45	-71.58	-58.58
141.985 MHz	51.4 Qp	1.0 / 9.22 / 26.97 / 0.0	34.64	V / 1.00 / 90	-73.27	-60.27
212.982 MHz	45.55 Qp	1.21 / 10.53 / 27.11 / 0.0	30.18	V / 1.00 / 90	-77.73	-64.73
284.0 MHz	58.2 Qp	1.5 / 12.56 / 27.43 / 0.0	44.83	V / 1.00 / 90	-63.08	-50.08
425.985 MHz	64.4 Qp	1.71 / 16.18 / 27.9 / 0.0	54.39	V / 1.00 / 90	-53.52	-40.52
709.994 MHz	53.85 Qp	2.3 / 20.2 / 27.95 / 0.0	48.4	V / 1.00 / 90	-59.51	-46.51
994.0 MHz	50.1 Qp	2.73 / 22.66 / 27.57 / 0.0	47.93	V / 1.00 / 90	-59.98	-46.98
38.22 MHz	54.05 Qp	0.49 / 17.51 / 27.17 / 0.0	44.88	V / 1.00 / 135	-63.03	-50.03
38.706 MHz	50.1 Qp	0.49 / 17.32 / 27.15 / 0.0	40.76	V / 1.00 / 135	-67.15	-54.15
39.738 MHz	52.75 Qp	0.5 / 16.9 / 27.11 / 0.0	43.04	V / 1.00 / 135	-64.87	-51.87

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 2                      Test Area: LTS  
 EUT Model #: DGVC-461X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands


Data File Name: 5741.dat

Page: 3 of 9

## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
141.985 MHz	55.5 Qp	1.0 / 9.22 / 26.97 / 0.0	38.74	V / 1.00 / 135	-69.17	-56.17
212.982 MHz	46.1 Qp	1.21 / 10.53 / 27.11 / 0.0	30.73	V / 1.00 / 135	-77.18	-64.18
497.0 MHz	52.8 Qp	1.9 / 17.39 / 27.93 / 0.0	44.16	V / 1.00 / 135	-63.75	-50.75
509.244 MHz	51.3 Qp	1.9 / 17.69 / 27.97 / 0.0	42.92	V / 1.00 / 135	-64.99	-51.99
511.341 MHz	26.45 Qp	1.9 / 17.75 / 27.98 / 0.0	18.13	V / 1.00 / 135	-89.78	-76.78
568.0 MHz	38.55 Qp	2.03 / 18.42 / 28.1 / 0.0	30.9	V / 1.00 / 135	-77.01	-64.01
764.5 MHz	34.85 Qp	2.36 / 21.34 / 27.89 / 0.0	30.66	V / 1.00 / 135	-77.25	-64.25
923.0 MHz	40.5 Qp	2.63 / 22.46 / 27.6 / 0.0	37.99	V / 1.00 / 135	-69.92	-56.92
38.22 MHz	54.5 Qp	0.49 / 17.51 / 27.17 / 0.0	45.33	V / 1.00 / 180	-62.58	-49.58
38.706 MHz	50.15 Qp	0.49 / 17.32 / 27.15 / 0.0	40.81	V / 1.00 / 180	-67.1	-54.1
39.738 MHz	53.6 Qp	0.5 / 16.9 / 27.11 / 0.0	43.89	V / 1.00 / 180	-64.02	-51.02
141.985 MHz	61.75 Qp	1.0 / 9.22 / 26.97 / 0.0	44.99	V / 1.00 / 180	-62.92	-49.92
767.185 MHz	22.15 Qp	2.36 / 21.37 / 27.88 / 0.0	18.0	V / 1.00 / 180	-89.91	-76.91
38.22 MHz	54.95 Qp	0.49 / 17.51 / 27.17 / 0.0	45.78	V / 1.00 / 225	-62.13	-49.13
38.706 MHz	50.2 Qp	0.49 / 17.32 / 27.15 / 0.0	40.86	V / 1.00 / 225	-67.05	-54.05
510.056 MHz	38.9 Qp	1.9 / 17.7 / 27.97 / 0.0	30.53	V / 1.00 / 225	-77.38	-64.38
425.985 MHz	66.65 Qp	1.71 / 16.18 / 27.9 / 0.0	56.64	V / 1.00 / 270	-51.27	-38.27
497.0 MHz	54.05 Qp	1.9 / 17.39 / 27.93 / 0.0	45.41	V / 1.00 / 270	-62.5	-49.5
781.0 MHz	38.1 Qp	2.39 / 21.54 / 27.83 / 0.0	34.2	V / 1.00 / 270	-73.71	-60.71
57.042 MHz	54.2 Qp	0.6 / 12.49 / 27.0 / 0.0	40.29	V / 1.00 / 315	-67.62	-54.62
58.116 MHz	55.6 Qp	0.6 / 12.17 / 27.0 / 0.0	41.37	V / 1.00 / 315	-66.54	-53.54

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 2                      Test Area: LTS  
 EUT Model #: DGVC-461X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands


Data File Name: 5741.dat

Page: 4 of 9

## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
Maximized Vertical frequencies 30-1000 MHz (1965 MHz Tx setting)						
425.985 MHz	69.0 Qp	1.71 / 16.18 / 27.9 / 0.0	58.99	V / 1.60 / 270	-48.92	-35.92
709.994 MHz	54.4 Qp	2.3 / 20.2 / 27.95 / 0.0	48.95	V / 1.45 / 90	-58.96	-45.96
141.985 MHz	61.8 Qp	1.0 / 9.22 / 26.97 / 0.0	45.04	V / 1.00 / 180	-62.87	-49.87
497.0 MHz	59.1 Qp	1.9 / 17.39 / 27.93 / 0.0	50.46	V / 1.00 / 90	-57.45	-44.45
38.22 MHz	55.15 Qp	0.49 / 17.51 / 27.17 / 0.0	45.98	V / 1.00 / 225	-61.93	-48.93
639.004 MHz	45.4 Qp	2.1 / 19.5 / 28.2 / 0.0	38.8	H / 1.00 / 0	-69.11	-56.11
212.982 MHz	48.1 Qp	1.21 / 10.53 / 27.11 / 0.0	32.73	H / 1.00 / 45	-75.18	-62.18
568.0 MHz	41.3 Qp	2.03 / 18.42 / 28.1 / 0.0	33.65	H / 1.00 / 45	-74.26	-61.26
355.0 MHz	53.75 Qp	1.6 / 14.65 / 27.6 / 0.0	42.4	H / 1.00 / 90	-65.51	-52.51
511.341 MHz	28.4 Qp	1.9 / 17.75 / 27.98 / 0.0	20.08	H / 1.00 / 90	-87.83	-74.83
767.185 MHz	22.45 Qp	2.36 / 21.37 / 27.88 / 0.0	18.3	H / 1.00 / 90	-89.61	-76.61
511.341 MHz	28.75 Qp	1.9 / 17.75 / 27.98 / 0.0	20.43	H / 1.00 / 135	-87.48	-74.48
639.004 MHz	46.0 Qp	2.1 / 19.5 / 28.2 / 0.0	39.4	H / 1.00 / 135	-68.51	-55.51
767.185 MHz	22.5 Qp	2.36 / 21.37 / 27.88 / 0.0	18.35	H / 1.00 / 135	-89.56	-76.56
923.0 MHz	41.8 Qp	2.63 / 22.46 / 27.6 / 0.0	39.29	H / 1.00 / 135	-68.62	-55.62
767.185 MHz	22.55 Qp	2.36 / 21.37 / 27.88 / 0.0	18.4	H / 1.00 / 225	-89.51	-76.51
212.982 MHz	50.9 Qp	1.21 / 10.53 / 27.11 / 0.0	35.53	H / 1.00 / 315	-72.38	-59.38
Maximized Horizontal frequencies 30-1000 MHz (1965 MHz Tx setting)						
355.0 MHz	56.7 Qp	1.6 / 14.65 / 27.6 / 0.0	45.35	H / 1.00 / 80	-62.56	-49.56
639.004 MHz	52.35 Qp	2.1 / 19.5 / 28.2 / 0.0	45.75	H / 1.00 / 115	-62.16	-49.16

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 2                      Test Area: LTS  
 EUT Model #: DGVC-461X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands

Data File Name: 5741.dat

Page: 5 of 9

## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
Note: 1977.5 MHz Tx setting						
Maximized Vertical frequencies 30-1000 MHz (1977.5 MHz Tx setting)						
425.985 MHz	69.85 Qp	1.71 / 16.18 / 27.9 / 0.0	59.84	H / 1.60 / 270	-48.07	-35.07
709.994 MHz	57.0 Qp	2.3 / 20.2 / 27.95 / 0.0	51.55	H / 1.40 / 90	-56.36	-43.36
Maximized Horizontal frequencies 30-1000 MHz (1977.5 MHz Tx setting)						
355.0 MHz	56.77 Qp	1.6 / 14.65 / 27.6 / 0.0	45.42	H / 1.00 / 80	-62.49	-49.49
639.004 MHz	53.21 Qp	2.1 / 19.5 / 28.2 / 0.0	46.61	H / 1.00 / 115	-61.3	-48.3
Note: 1990 MHz Tx setting						
Maximized Vertical frequencies 30-1000 MHz (1990 MHz Tx setting)						
425.985 MHz	70.88 Qp	1.71 / 16.18 / 27.9 / 0.0	60.87	V / 1.40 / 270	-47.04	-34.04
709.994 MHz	56.7 Qp	2.3 / 20.2 / 27.95 / 0.0	51.25	V / 1.40 / 90	-56.66	-43.66
Maximized Horizontal frequencies 30-1000 MHz (1990 MHz Tx setting)						
355.0 MHz	56.63 Qp	1.6 / 14.65 / 27.6 / 0.0	45.28	V / 1.00 / 80	-62.63	-49.63
639.004 MHz	51.83 Qp	2.1 / 19.5 / 28.2 / 0.0	45.23	V / 1.00 / 120	-62.68	-49.68
Note 1965 MHz Tx setting						
1.965 GHz	60.95 Av	3.9 / 28.02 / 49.74 / 0.0	43.13	V / 1.00 / 0	-64.78	-51.78
1.065 GHz	52.8 Av	2.83 / 25.59 / 49.22 / 0.0	32.0	V / 1.00 / 0	-75.91	-62.91
1.136 GHz	56.66 Av	2.93 / 25.51 / 49.55 / 0.0	35.54	V / 1.00 / 0	-72.37	-59.37
1.207 GHz	52.78 Av	3.01 / 25.43 / 49.62 / 0.0	31.6	V / 1.00 / 0	-76.31	-63.31
1.278 GHz	56.95 Av	3.1 / 25.35 / 49.25 / 0.0	36.14	V / 1.00 / 0	-71.77	-58.77
1.349 GHz	55.32 Av	3.18 / 25.27 / 49.37 / 0.0	34.39	V / 1.00 / 0	-73.52	-60.52

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 2                      Test Area: LTS  
 EUT Model #: DGVC-461X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands


Data File Name: 5741.dat

Page: 7 of 9

## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.846 GHz	68.96 Av	3.83 / 27.27 / 49.79 / 0.0	50.27	V / 1.60 / 85	-57.64	-44.64
1.207 GHz	65.56 Av	3.01 / 25.43 / 49.62 / 0.0	44.38	V / 1.60 / 200	-63.53	-50.53
6.177 GHz	53.16 Av	7.35 / 34.42 / 45.45 / 0.0	49.47	V / 1.60 / 215	-58.44	-45.44
1.278 GHz	60.57 Av	3.1 / 25.35 / 49.25 / 0.0	39.76	H / 1.00 / 0	-68.15	-55.15
2.13 GHz	54.3 Av	3.97 / 28.34 / 49.41 / 0.0	37.21	H / 1.00 / 0	-70.7	-57.7
1.988 GHz	50.65 Av	3.9 / 28.17 / 49.65 / 0.0	33.06	H / 1.00 / 45	-74.85	-61.85
1.349 GHz	61.65 Av	3.18 / 25.27 / 49.37 / 0.0	40.72	H / 1.00 / 90	-67.19	-54.19
1.42 GHz	61.99 Av	3.3 / 25.19 / 49.65 / 0.0	40.82	H / 1.00 / 90	-67.09	-54.09
Maximized Horizontal frequencies 1-19 GHz (1965 MHz Tx setting)						
1.278 GHz	62.92 Av	3.1 / 25.35 / 49.25 / 0.0	42.11	H / 1.00 / 150	-65.8	-52.8
1.349 GHz	62.15 Av	3.18 / 25.27 / 49.37 / 0.0	41.22	H / 1.00 / 135	-66.69	-53.69
1.42 GHz	63.03 Av	3.3 / 25.19 / 49.65 / 0.0	41.86	H / 1.00 / 125	-66.05	-53.05
Note: 1977.5 MHz Tx setting						
Maximized Vertical frequencies 1-19 GHz (1977.5 MHz Tx setting)						
1.846 GHz	69.37 Av	3.83 / 27.27 / 49.79 / 0.0	50.68	V / 1.30 / 90	-57.23	-44.23
1.207 GHz	65.59 Av	3.01 / 25.43 / 49.62 / 0.0	44.41	V / 1.60 / 200	-63.5	-50.5
1.136 GHz	65.78 Av	2.93 / 25.51 / 49.55 / 0.0	44.66	V / 1.00 / 160	-63.25	-50.25
Maximized Horizontal frequencies 1-19 GHz (1977.5 MHz Tx setting)						
1.278 GHz	62.51 Av	3.1 / 25.35 / 49.25 / 0.0	41.7	H / 1.00 / 150	-66.21	-53.21
1.349 GHz	61.53 Av	3.18 / 25.27 / 49.37 / 0.0	40.6	H / 1.00 / 138	-67.31	-54.31
1.42 GHz	63.15 Av	3.3 / 25.19 / 49.65 / 0.0	41.98	H / 1.00 / 125	-65.93	-52.93

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# RADIATED EMISSIONS



America

Test Report #: WC505741 Run 2 Test Area: LTS  
 EUT Model #: DGVC-461X0000100SYS Date: 11/8/2005  
 EUT Serial #: n/a EUT Power: 60 Hz / 120 VAC Temperature: 22.0 °C  
 Test Method: FCC Part 24 Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands

Data File Name: 5741.dat Page: 8 of 9

## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.978 GHz	71.52 Av	3.9 / 28.1 / 49.69 / 0.0	53.83	H / 1.00 / 213	-54.08	-41.08
1.978 GHz	74.53 Av	3.9 / 28.1 / 49.69 / 0.0	56.84	V / 1.00 / 150	-51.07	-38.07
Note: 1990 MHz Tx setting						
1.99 GHz	71.32 Av	3.9 / 28.18 / 49.65 / 0.0	53.75	V / 1.00 / 150	-54.16	-41.16
1.99 GHz	69.52 Av	3.9 / 28.18 / 49.65 / 0.0	51.95	H / 1.00 / 215	-55.96	-42.96
Maximized Vertical frequencies 1-19 GHz (1990 MHz Tx setting)						
1.207 GHz	65.34 Av	3.01 / 25.43 / 49.62 / 0.0	44.16	V / 1.60 / 195	-63.75	-50.75
1.136 GHz	66.54 Av	2.93 / 25.51 / 49.55 / 0.0	45.42	V / 1.00 / 160	-62.49	-49.49
1.846 GHz	69.41 Av	3.83 / 27.27 / 49.79 / 0.0	50.72	V / 1.30 / 90	-57.19	-44.19
Maximized Horizontal frequencies 1-19 GHz (1990 MHz Tx setting)						
1.278 GHz	62.9 Av	3.1 / 25.35 / 49.25 / 0.0	42.09	H / 1.00 / 155	-65.82	-52.82
1.349 GHz	61.64 Av	3.18 / 25.27 / 49.37 / 0.0	40.71	H / 1.00 / 135	-67.2	-54.2
1.42 GHz	62.79 Av	3.3 / 25.19 / 49.65 / 0.0	41.62	H / 1.00 / 125	-66.29	-53.29
Scan complete 30-19000 MHz						

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# RADIATED EMISSIONS



America

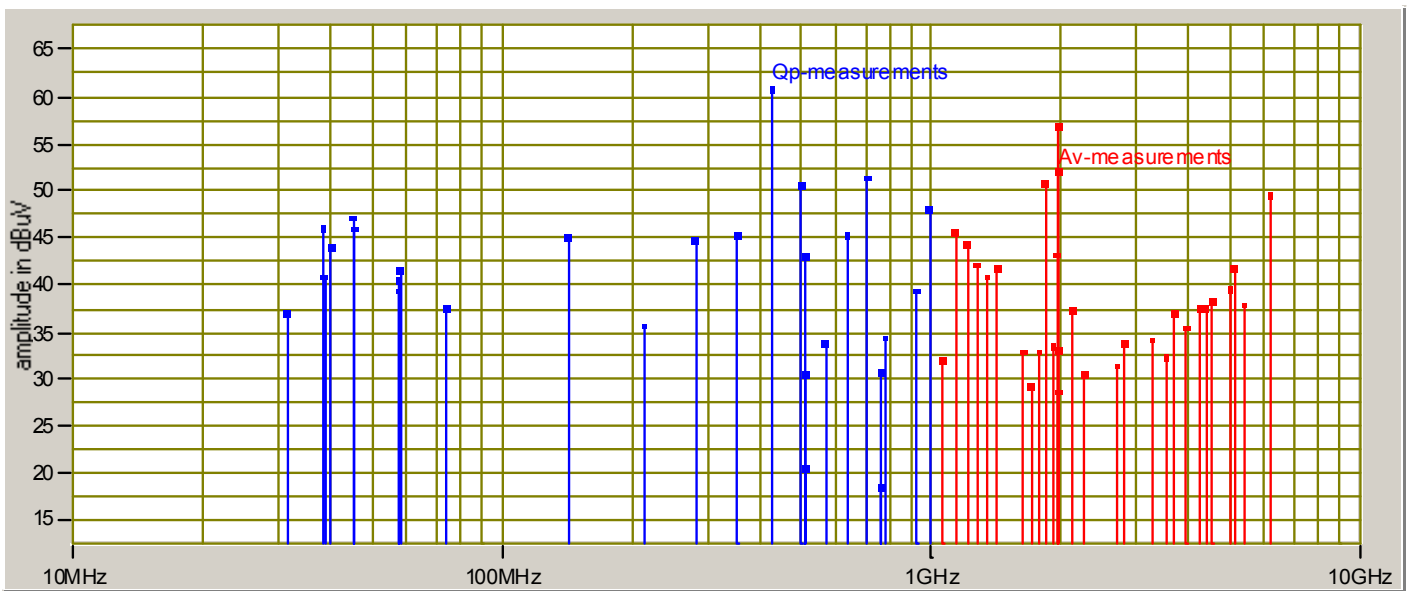
Test Report #: WC505741 Run 2 Test Area: LTS  
EUT Model #: DGVC-461X0000100SYS Date: 11/8/2005  
EUT Serial #: n/a EUT Power: 60 Hz / 120 VAC Temperature: 22.0 °C  
Test Method: FCC Part 24 Air Pressure: 98.0 kPa  
Customer: ADC Telecommunications Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "E, F, and C" bands

Data File Name: 5741.dat Page: 9 of 9

## Graph:



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# RADIATED EMISSIONS



Test Report #: WC505741 Run 3                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat                      Page: 1 of 8

## List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
Note 1930 MHz Tx setting						
Maximized 1930 MHz V/H						
1.93 GHz	72.34 Av	3.89 / 27.8 / 49.86 / 0.0	54.17	H / 1.00 / 200	-53.74	-40.74
1.93 GHz	70.33 Av	3.89 / 27.8 / 49.86 / 0.0	52.16	V / 1.60 / 70	-55.75	-42.75
1.065 GHz	59.26 Av	2.83 / 25.59 / 49.22 / 0.0	38.46	V / 1.60 / 0	-69.45	-56.45
1.136 GHz	53.66 Av	2.93 / 25.51 / 49.55 / 0.0	32.54	V / 1.60 / 0	-75.37	-62.37
1.207 GHz	52.76 Av	3.01 / 25.43 / 49.62 / 0.0	31.58	V / 1.60 / 0	-76.33	-63.33
1.278 GHz	52.71 Av	3.1 / 25.35 / 49.25 / 0.0	31.9	V / 1.60 / 0	-76.01	-63.01
1.349 GHz	47.7 Av	3.18 / 25.27 / 49.37 / 0.0	26.77	V / 1.60 / 0	-81.14	-68.14
1.42 GHz	54.4 Av	3.3 / 25.19 / 49.65 / 0.0	33.23	V / 1.60 / 0	-74.68	-61.68
1.633 GHz	49.31 Av	3.55 / 25.93 / 49.58 / 0.0	29.21	V / 1.60 / 0	-78.7	-65.7
1.704 GHz	47.55 Av	3.62 / 26.38 / 49.76 / 0.0	27.79	V / 1.60 / 0	-80.12	-67.12
1.775 GHz	52.41 Av	3.74 / 26.83 / 49.67 / 0.0	33.31	V / 1.60 / 0	-74.6	-61.6
1.846 GHz	55.17 Av	3.83 / 27.27 / 49.79 / 0.0	36.48	V / 1.60 / 0	-71.43	-58.43
1.917 GHz	53.65 Av	3.88 / 27.72 / 49.91 / 0.0	35.34	V / 1.60 / 0	-72.57	-59.57
2.13 GHz	60.13 Av	3.97 / 28.34 / 49.41 / 0.0	43.04	V / 1.60 / 0	-64.87	-51.87
2.272 GHz	46.79 Av	4.15 / 28.46 / 49.07 / 0.0	30.33	V / 1.60 / 0	-77.58	-64.58
2.698 GHz	47.32 Av	4.48 / 29.21 / 48.26 / 0.0	32.75	V / 1.60 / 0	-75.16	-62.16
3.266 GHz	48.96 Av	5.0 / 30.67 / 47.55 / 0.0	37.08	V / 1.60 / 0	-70.83	-57.83
3.266 GHz	48.88 Av	5.0 / 30.67 / 47.55 / 0.0	37.0	V / 1.60 / 0	-70.91	-57.91
3.55 GHz	46.13 Av	5.38 / 31.31 / 47.17 / 0.0	35.66	V / 1.60 / 0	-72.25	-59.25
3.692 GHz	49.97 Av	5.56 / 31.67 / 46.95 / 0.0	40.24	V / 1.60 / 0	-67.67	-54.67
4.26 GHz	46.08 Av	6.1 / 32.37 / 46.03 / 0.0	38.52	V / 1.60 / 0	-69.39	-56.39
5.112 GHz	46.24 Av	6.57 / 33.55 / 44.66 / 0.0	41.7	V / 1.60 / 0	-66.21	-53.21

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 3                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat

Page: 2 of 8

## List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.136 GHz	61.62 Av	2.93 / 25.51 / 49.55 / 0.0	40.5	V / 1.60 / 45	-67.41	-54.41
1.207 GHz	60.13 Av	3.01 / 25.43 / 49.62 / 0.0	38.95	V / 1.60 / 45	-68.96	-55.96
1.278 GHz	59.32 Av	3.1 / 25.35 / 49.25 / 0.0	38.51	V / 1.60 / 45	-69.4	-56.4
1.349 GHz	56.69 Av	3.18 / 25.27 / 49.37 / 0.0	35.76	V / 1.60 / 45	-72.15	-59.15
1.42 GHz	64.74 Av	3.3 / 25.19 / 49.65 / 0.0	43.57	V / 1.60 / 45	-64.34	-51.34
1.278 GHz	63.68 Av	3.1 / 25.35 / 49.25 / 0.0	42.87	V / 1.60 / 90	-65.04	-52.04
1.349 GHz	63.16 Av	3.18 / 25.27 / 49.37 / 0.0	42.23	V / 1.60 / 90	-65.68	-52.68
1.846 GHz	66.71 Av	3.83 / 27.27 / 49.79 / 0.0	48.02	V / 1.60 / 90	-59.89	-46.89
1.207 GHz	66.87 Av	3.01 / 25.43 / 49.62 / 0.0	45.69	V / 1.60 / 135	-62.22	-49.22
1.917 GHz	57.25 Av	3.88 / 27.72 / 49.91 / 0.0	38.94	V / 1.60 / 180	-68.97	-55.97
1.775 GHz	58.16 Av	3.74 / 26.83 / 49.67 / 0.0	39.06	V / 1.60 / 225	-68.85	-55.85
1.349 GHz	66.49 Av	3.18 / 25.27 / 49.37 / 0.0	45.56	V / 1.60 / 270	-62.35	-49.35
Maximized Vertical frequencies 1-19 GHz (1930 MHz Tx setting)						
1.207 GHz	67.48 Av	3.01 / 25.43 / 49.62 / 0.0	46.3	V / 1.55 / 135	-61.61	-48.61
1.278 GHz	65.38 Av	3.1 / 25.35 / 49.25 / 0.0	44.57	V / 1.65 / 80	-63.34	-50.34
1.42 GHz	68.72 Av	3.3 / 25.19 / 49.65 / 0.0	47.55	V / 1.08 / 260	-60.36	-47.36
1.846 GHz	67.22 Av	3.83 / 27.27 / 49.79 / 0.0	48.53	V / 1.70 / 90	-59.38	-46.38
5.112 GHz	47.65 Av	6.57 / 33.55 / 44.66 / 0.0	43.11	V / 2.00 / 0	-64.8	-51.8
1.633 GHz	56.56 Av	3.55 / 25.93 / 49.58 / 0.0	36.46	H / 1.00 / 0	-71.45	-58.45
1.704 GHz	50.5 Av	3.62 / 26.38 / 49.76 / 0.0	30.74	H / 1.00 / 0	-77.17	-64.17
1.278 GHz	66.56 Av	3.1 / 25.35 / 49.25 / 0.0	45.75	H / 1.00 / 45	-62.16	-49.16
1.633 GHz	59.53 Av	3.55 / 25.93 / 49.58 / 0.0	39.43	H / 1.00 / 45	-68.48	-55.48

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# RADIATED EMISSIONS



America

Test Report #: WC505741 Run 3 Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS Date: 11/8/2005  
 EUT Serial #: n/a EUT Power: 60 Hz / 120 VAC Temperature: 22.0 °C  
 Test Method: FCC Part 24E Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat Page: 3 of 8

## List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.136 GHz	63.87 Av	2.93 / 25.51 / 49.55 / 0.0	42.75	H / 1.00 / 90	-65.16	-52.16
1.278 GHz	67.45 Av	3.1 / 25.35 / 49.25 / 0.0	46.64	H / 1.00 / 90	-61.27	-48.27
1.775 GHz	60.11 Av	3.74 / 26.83 / 49.67 / 0.0	41.01	H / 1.00 / 90	-66.9	-53.9
1.065 GHz	60.11 Av	2.83 / 25.59 / 49.22 / 0.0	39.31	H / 1.00 / 270	-68.6	-55.6
Maximized Horizontal frequencies 1-19 GHz (1930 MHz Tx setting)						
1.278 GHz	72.42 Av	3.1 / 25.35 / 49.25 / 0.0	51.61	H / 1.15 / 55	-56.3	-43.3
1.136 GHz	66.2 Av	2.93 / 25.51 / 49.55 / 0.0	45.08	H / 1.20 / 85	-62.83	-49.83
1.775 GHz	63.33 Av	3.74 / 26.83 / 49.67 / 0.0	44.23	H / 1.20 / 85	-63.68	-50.68
Maxed 1.845 GHz: (11-9-05 1st shift, JCS)						
1.846 GHz	67.55 Pk	3.83 / 27.27 / 49.79 / 0.0	48.86	V / 1.68 / 88	-59.05	-46.05
NOTE! 1940 MHz TX setting:						
1.846 GHz	67.6 Pk	3.83 / 27.27 / 49.79 / 0.0	48.91	V / 1.68 / 88	-59	-46
1.278 GHz	65.3 Pk	3.1 / 25.35 / 49.25 / 0.0	44.49	H / 1.44 / 23	-63.42	-50.42
1940 MHz maxed:						
1.94 GHz	72.15 Pk	3.9 / 27.86 / 49.83 / 0.0	54.09	H / 1.88 / 153	-53.82	-40.82
3.692 GHz	45.6 Pk	5.56 / 31.67 / 46.95 / 0.0	35.87	H / 1.88 / 153	-72.04	-59.04
3.55 GHz	43.9 Pk	5.38 / 31.31 / 47.17 / 0.0	33.43	H / 1.88 / 153	-74.48	-61.48
3.266 GHz	47.95 Pk	5.0 / 30.67 / 47.55 / 0.0	36.07	H / 1.88 / 153	-71.84	-58.84
2.84 GHz	50.8 Pk	4.6 / 29.62 / 48.37 / 0.0	36.65	H / 1.88 / 153	-71.26	-58.26
2.698 GHz	48.45 Pk	4.48 / 29.21 / 48.26 / 0.0	33.88	H / 1.88 / 153	-74.03	-61.03
1.917 GHz	55.9 Pk	3.88 / 27.72 / 49.91 / 0.0	37.59	H / 1.88 / 153	-70.32	-57.32
1.775 GHz	48.0 Pk	3.74 / 26.83 / 49.67 / 0.0	28.9	H / 1.88 / 153	-79.01	-66.01

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 3                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat

Page: 4 of 8

## List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.704 GHz	48.55 Pk	3.62 / 26.38 / 49.76 / 0.0	28.79	H / 1.88 / 153	-79.12	-66.12
1.633 GHz	52.75 Pk	3.55 / 25.93 / 49.58 / 0.0	32.65	H / 1.88 / 153	-75.26	-62.26
1.42 GHz	60.7 Pk	3.3 / 25.19 / 49.65 / 0.0	39.53	H / 1.88 / 153	-68.38	-55.38
1.349 GHz	53.5 Pk	3.18 / 25.27 / 49.37 / 0.0	32.57	H / 1.88 / 153	-75.34	-62.34
1.278 GHz	55.8 Pk	3.1 / 25.35 / 49.25 / 0.0	34.99	H / 1.88 / 153	-72.92	-59.92
1.207 GHz	57.4 Pk	3.01 / 25.43 / 49.62 / 0.0	36.22	H / 1.88 / 153	-71.69	-58.69
1.136 GHz	53.55 Pk	2.93 / 25.51 / 49.55 / 0.0	32.43	H / 1.88 / 153	-75.48	-62.48
1.065 GHz	55.25 Pk	2.83 / 25.59 / 49.22 / 0.0	34.45	H / 1.88 / 153	-73.46	-60.46
1.94 GHz	75.4 Pk	3.9 / 27.86 / 49.83 / 0.0	57.34	V / 1.46 / 90	-50.57	-37.57
2.272 GHz	51.8 Pk	4.15 / 28.46 / 49.07 / 0.0	35.34	V / 1.46 / 90	-72.57	-59.57
2.13 GHz	58.85 Pk	3.97 / 28.34 / 49.41 / 0.0	41.76	V / 1.46 / 90	-66.15	-53.15
1.988 GHz	52.5 Pk	3.9 / 28.17 / 49.65 / 0.0	34.91	V / 1.46 / 90	-73	-60
1.775 GHz	56.1 Pk	3.74 / 26.83 / 49.67 / 0.0	37.0	V / 1.46 / 90	-70.91	-57.91
1.704 GHz	54.25 Pk	3.62 / 26.38 / 49.76 / 0.0	34.49	V / 1.46 / 90	-73.42	-60.42
1.349 GHz	62.1 Pk	3.18 / 25.27 / 49.37 / 0.0	41.17	V / 1.46 / 90	-66.74	-53.74
1.207 GHz	63.5 Pk	3.01 / 25.43 / 49.62 / 0.0	42.32	V / 1.46 / 90	-65.59	-52.59
1.136 GHz	59.95 Pk	2.93 / 25.51 / 49.55 / 0.0	38.83	V / 1.46 / 90	-69.08	-56.08
1.846 GHz	66.5 Pk	3.83 / 27.27 / 49.79 / 0.0	47.81	V / 1.70 / 90	-60.1	-47.1
NOTE! 1950 MHz setting:						
1.846 GHz	66.75 Pk	3.83 / 27.27 / 49.79 / 0.0	48.06	V / 1.70 / 90	-59.85	-46.85
1.95 GHz	66.45 Pk	3.9 / 27.93 / 49.79 / 0.0	48.49	V / 1.70 / 90	-59.42	-46.42
1.278 GHz maxed:						
1.278 GHz	63.2 Pk	3.1 / 25.35 / 49.25 / 0.0	42.39	H / 1.00 / 70	-65.52	-52.52
1.633 GHz	56.05 Pk	3.55 / 25.93 / 49.58 / 0.0	35.95	H / 1.00 / 70	-71.96	-58.96
1.065 GHz	57.0 Pk	2.83 / 25.59 / 49.22 / 0.0	36.2	H / 1.00 / 70	-71.71	-58.71

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 3                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat

Page: 5 of 8

## List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
No higher emission levels detected 1 GHz to 19 GHz..						
31.566 MHz	42.5 Qp	0.44 / 20.4 / 27.34 / 0.0	36.0	H / 1.00 / 70	-71.91	-58.91
38.22 MHz	54.25 Qp	0.49 / 17.51 / 27.17 / 0.0	45.08	H / 1.00 / 70	-62.83	-49.83
38.706 MHz	48.0 Qp	0.49 / 17.32 / 27.15 / 0.0	38.66	H / 1.00 / 70	-69.25	-56.25
39.738 MHz	49.35 Qp	0.5 / 16.9 / 27.11 / 0.0	39.64	H / 1.00 / 70	-68.27	-55.27
44.82 MHz	56.85 Qp	0.6 / 15.35 / 27.06 / 0.0	45.74	H / 1.00 / 70	-62.17	-49.17
45.312 MHz	57.1 Qp	0.6 / 15.24 / 27.08 / 0.0	45.86	H / 1.00 / 70	-62.05	-49.05
57.042 MHz	53.2 Qp	0.6 / 12.49 / 27.0 / 0.0	39.29	H / 1.00 / 70	-68.62	-55.62
57.576 MHz	49.95 Qp	0.6 / 12.33 / 27.0 / 0.0	35.88	H / 1.00 / 70	-72.03	-59.03
58.116 MHz	55.5 Qp	0.6 / 12.17 / 27.0 / 0.0	41.27	H / 1.00 / 70	-66.64	-53.64
73.836 MHz	56.15 Qp	0.7 / 7.93 / 27.0 / 0.0	37.78	H / 1.00 / 70	-70.13	-57.13
74.41 MHz	55.6 Qp	0.7 / 7.82 / 27.0 / 0.0	37.12	H / 1.00 / 70	-70.79	-57.79
141.985 MHz	63.25 Qp	1.0 / 9.22 / 26.97 / 0.0	46.49	H / 1.00 / 70	-61.42	-48.42
212.982 MHz	42.85 Qp	1.21 / 10.53 / 27.11 / 0.0	27.48	H / 1.00 / 70	-80.43	-67.43
254.652 MHz	40.9 Qp	1.37 / 12.03 / 27.2 / 0.0	27.1	H / 1.00 / 70	-80.81	-67.81
284.0 MHz	52.15 Qp	1.5 / 12.56 / 27.43 / 0.0	38.78	H / 1.00 / 70	-69.13	-56.13
355.0 MHz	50.6 Qp	1.6 / 14.65 / 27.6 / 0.0	39.25	H / 1.00 / 70	-68.66	-55.66
425.985 MHz	61.05 Qp	1.71 / 16.18 / 27.9 / 0.0	51.04	H / 1.00 / 70	-56.87	-43.87
497.0 MHz	37.6 Qp	1.9 / 17.39 / 27.93 / 0.0	28.96	H / 1.00 / 70	-78.95	-65.95
509.244 MHz	27.5 Qp	1.9 / 17.69 / 27.97 / 0.0	19.12	H / 1.00 / 70	-88.79	-75.79
510.056 MHz	27.4 Qp	1.9 / 17.7 / 27.97 / 0.0	19.03	H / 1.00 / 70	-88.88	-75.88
511.341 MHz	27.55 Qp	1.9 / 17.75 / 27.98 / 0.0	19.23	H / 1.00 / 70	-88.68	-75.68
568.0 MHz	35.7 Qp	2.03 / 18.42 / 28.1 / 0.0	28.05	H / 1.00 / 70	-79.86	-66.86
639.004 MHz	50.3 Qp	2.1 / 19.5 / 28.2 / 0.0	43.7	H / 1.00 / 70	-64.21	-51.21
709.994 MHz	50.7 Qp	2.3 / 20.2 / 27.95 / 0.0	45.25	H / 1.00 / 70	-62.66	-49.66
764.5 MHz	26.75 Qp	2.36 / 21.34 / 27.89 / 0.0	22.56	H / 1.00 / 70	-85.35	-72.35

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Test Report #: WC505741 Run 3                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat

Page: 6 of 8

## List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
767.185 MHz	26.8 Qp	2.36 / 21.37 / 27.88 / 0.0	22.65	H / 1.00 / 70	-85.26	-72.26
781.0 MHz	36.85 Qp	2.39 / 21.54 / 27.83 / 0.0	32.95	H / 1.00 / 70	-74.96	-61.96
923.0 MHz	39.6 Qp	2.63 / 22.46 / 27.6 / 0.0	37.09	H / 1.00 / 70	-70.82	-57.82
994.0 MHz	39.95 Qp	2.73 / 22.66 / 27.57 / 0.0	37.78	H / 1.00 / 70	-70.13	-57.13
38.706 MHz	48.05 Qp	0.49 / 17.32 / 27.15 / 0.0	38.71	V / 1.00 / 0	-69.2	-56.2
39.738 MHz	49.9 Qp	0.5 / 16.9 / 27.11 / 0.0	40.19	V / 1.00 / 0	-67.72	-54.72
44.82 MHz	57.1 Qp	0.6 / 15.35 / 27.06 / 0.0	45.99	V / 1.00 / 0	-61.92	-48.92
31.566 MHz	42.55 Qp	0.44 / 20.4 / 27.34 / 0.0	36.05	V / 1.00 / 0	-71.86	-58.86
38.22 MHz	54.4 Qp	0.49 / 17.51 / 27.17 / 0.0	45.23	V / 1.00 / 0	-62.68	-49.68
57.042 MHz	53.45 Qp	0.6 / 12.49 / 27.0 / 0.0	39.54	V / 1.00 / 0	-68.37	-55.37
212.982 MHz	42.95 Qp	1.21 / 10.53 / 27.11 / 0.0	27.58	V / 1.00 / 0	-80.33	-67.33
254.652 MHz	41.05 Qp	1.37 / 12.03 / 27.2 / 0.0	27.25	V / 1.00 / 0	-80.66	-67.66
425.985 MHz	61.1 Qp	1.71 / 16.18 / 27.9 / 0.0	51.09	V / 1.00 / 0	-56.82	-43.82
639.004 MHz	50.7 Qp	2.1 / 19.5 / 28.2 / 0.0	44.1	V / 1.00 / 0	-63.81	-50.81
764.5 MHz	26.8 Qp	2.36 / 21.34 / 27.89 / 0.0	22.61	V / 1.00 / 0	-85.3	-72.3
425 MHz maxed:						
425.985 MHz	68.15 Qp	1.71 / 16.18 / 27.9 / 0.0	58.14	V / 1.47 / 11	-49.77	-36.77
497.0 MHz	41.95 Qp	1.9 / 17.39 / 27.93 / 0.0	33.31	V / 1.47 / 11	-74.6	-61.6
425 MHz maxed:						
425.985 MHz	68.15 Qp	1.71 / 16.18 / 27.9 / 0.0	58.14	H / 1.00 / 0	-49.77	-36.77
NOTE! 1940 MHz Tx setting:						
425.985 MHz	67.25 Qp	1.71 / 16.18 / 27.9 / 0.0	57.24	H / 1.00 / 0	-50.67	-37.67
497.0 MHz	45.95 Qp	1.9 / 17.39 / 27.93 / 0.0	37.31	H / 1.00 / 0	-70.6	-57.6
425.985 MHz	68.1 Qp	1.71 / 16.18 / 27.9 / 0.0	58.09	V / 1.00 / 11	-49.82	-36.82

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Test Report #: WC505741 Run 3 Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS Date: 11/8/2005  
 EUT Serial #: n/a EUT Power: 60 Hz / 120 VAC Temperature: 22.0 °C  
 Test Method: FCC Part 24E Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat Page: 7 of 8

### List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
141.985 MHz	63.8 Qp	1.0 / 9.22 / 26.97 / 0.0	47.04	V / 1.00 / 11	-60.87	-47.87
284.0 MHz	52.35 Qp	1.5 / 12.56 / 27.43 / 0.0	38.98	V / 1.00 / 11	-68.93	-55.93
568.0 MHz	38.4 Qp	2.03 / 18.42 / 28.1 / 0.0	30.75	V / 1.00 / 11	-77.16	-64.16
NOTE! 1930 MHz Tx setting:						
425.985 MHz	68.05 Qp	1.71 / 16.18 / 27.9 / 0.0	58.04	V / 1.00 / 11	-49.87	-36.87
425.985 MHz	67.35 Qp	1.71 / 16.18 / 27.9 / 0.0	57.34	H / 1.00 / 11	-50.57	-37.57
No further significant EUT emissions detected 30 MHz to 19 GHz, vert and hor ant.						

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# RADIATED EMISSIONS



America

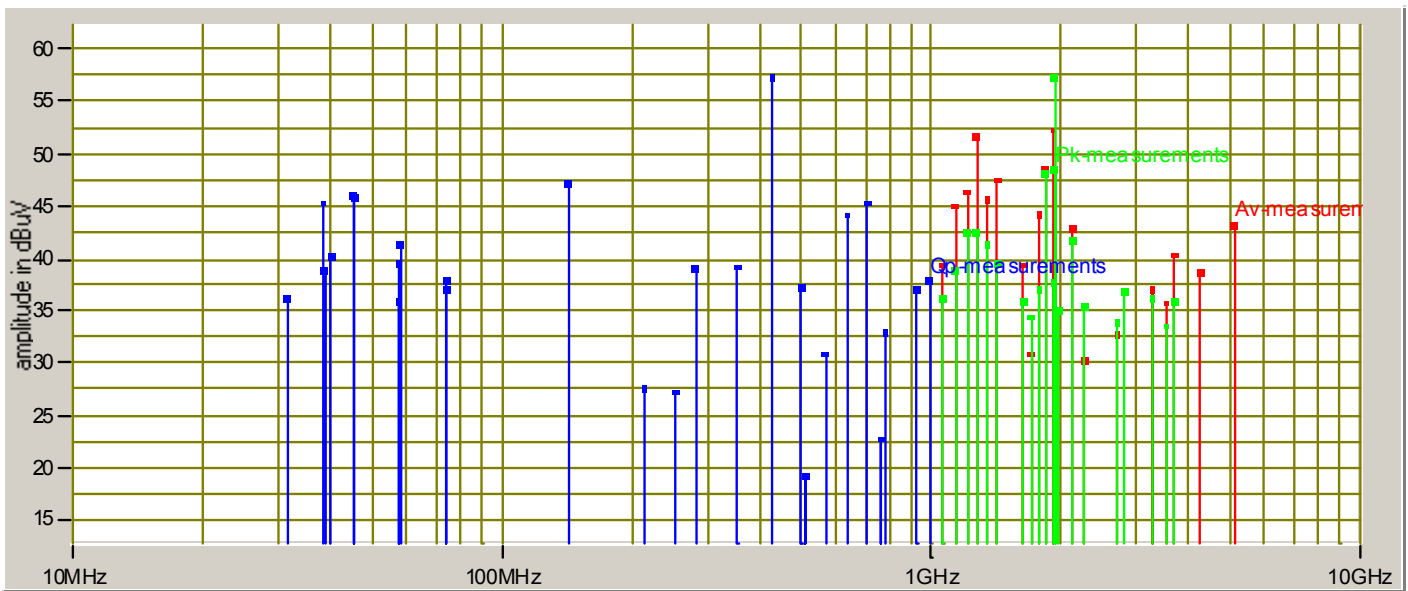
Test Report #: WC505741 Run 3 Test Area: LTS  
EUT Model #: DGVC-431X0000100SYS Date: 11/8/2005  
EUT Serial #: n/a EUT Power: 60 Hz / 120 VAC Temperature: 22.0 °C  
Test Method: FCC Part 24E Air Pressure: 98.0 kPa  
Customer: ADC Telecommunications Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "A and D" bands

Data File Name: 5741-3.dat Page: 8 of 8

## Graph:



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# RADIATED EMISSIONS



Test Report #: WC505741 Run 4                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "D, B, &E" bands.

Data File Name: 5741-4.dat

Page: 1 of 7

## List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
31.566 MHz	33.45 Qp	0.44 / 20.4 / 27.34 / 0.0	26.95	V / 1.00 / 0	-80.96	-67.96
38.22 MHz	38.35 Qp	0.49 / 17.51 / 27.17 / 0.0	29.18	V / 1.00 / 0	-78.73	-65.73
38.706 MHz	34.55 Qp	0.49 / 17.32 / 27.15 / 0.0	25.21	V / 1.00 / 0	-82.7	-69.7
39.738 MHz	37.4 Qp	0.5 / 16.9 / 27.11 / 0.0	27.69	V / 1.00 / 0	-80.22	-67.22
44.82 MHz	39.65 Qp	0.6 / 15.35 / 27.06 / 0.0	28.54	V / 1.00 / 0	-79.37	-66.37
45.312 MHz	40.4 Qp	0.6 / 15.24 / 27.08 / 0.0	29.16	V / 1.00 / 0	-78.75	-65.75
57.042 MHz	32.7 Qp	0.6 / 12.49 / 27.0 / 0.0	18.79	V / 1.00 / 0	-89.12	-76.12
57.576 MHz	31.75 Qp	0.6 / 12.33 / 27.0 / 0.0	17.68	V / 1.00 / 0	-90.23	-77.23
58.116 MHz	33.0 Qp	0.6 / 12.17 / 27.0 / 0.0	18.77	V / 1.00 / 0	-89.14	-76.14
73.836 MHz	40.9 Qp	0.7 / 7.93 / 27.0 / 0.0	22.53	V / 1.00 / 0	-85.38	-72.38
74.41 MHz	39.35 Qp	0.7 / 7.82 / 27.0 / 0.0	20.87	V / 1.00 / 0	-87.04	-74.04
141.985 MHz	56.8 Qp	1.0 / 9.22 / 26.97 / 0.0	40.04	V / 1.00 / 0	-67.87	-54.87
212.982 MHz	32.15 Qp	1.21 / 10.53 / 27.11 / 0.0	16.78	V / 1.00 / 0	-91.13	-78.13
254.652 MHz	44.25 Qp	1.37 / 12.03 / 27.2 / 0.0	30.45	V / 1.00 / 0	-77.46	-64.46
284.0 MHz	50.4 Qp	1.5 / 12.56 / 27.43 / 0.0	37.03	V / 1.00 / 0	-70.88	-57.88
355.0 MHz	43.8 Qp	1.6 / 14.65 / 27.6 / 0.0	32.45	V / 1.00 / 0	-75.46	-62.46
425.985 MHz	60.9 Qp	1.71 / 16.18 / 27.9 / 0.0	50.89	V / 1.00 / 0	-57.02	-44.02
497.0 MHz	44.8 Qp	1.9 / 17.39 / 27.93 / 0.0	36.16	V / 1.00 / 0	-71.75	-58.75
509.244 MHz	30.15 Qp	1.9 / 17.69 / 27.97 / 0.0	21.77	V / 1.00 / 0	-86.14	-73.14
510.056 MHz	28.65 Qp	1.9 / 17.7 / 27.97 / 0.0	20.28	V / 1.00 / 0	-87.63	-74.63
511.341 MHz	28.1 Qp	1.9 / 17.75 / 27.98 / 0.0	19.78	V / 1.00 / 0	-88.13	-75.13
568.0 MHz	36.85 Qp	2.03 / 18.42 / 28.1 / 0.0	29.2	V / 1.00 / 0	-78.71	-65.71
639.004 MHz	33.3 Qp	2.1 / 19.5 / 28.2 / 0.0	26.7	V / 1.00 / 0	-81.21	-68.21
709.994 MHz	38.65 Qp	2.3 / 20.2 / 27.95 / 0.0	33.2	V / 1.00 / 0	-74.71	-61.71
764.5 MHz	26.65 Qp	2.36 / 21.34 / 27.89 / 0.0	22.46	V / 1.00 / 0	-85.45	-72.45
767.185 MHz	26.7 Qp	2.36 / 21.37 / 27.88 / 0.0	22.55	V / 1.00 / 0	-85.36	-72.36

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Test Report #: WC505741 Run 4                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz

Notes: "D, B, &E" bands.

Data File Name: 5741-4.dat                      Page: 2 of 7

## List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
781.0 MHz	29.6 Qp	2.39 / 21.54 / 27.83 / 0.0	25.7	V / 1.00 / 0	-82.21	-69.21
923.0 MHz	35.4 Qp	2.63 / 22.46 / 27.6 / 0.0	32.89	V / 1.00 / 0	-75.02	-62.02
994.0 MHz	34.25 Qp	2.73 / 22.66 / 27.57 / 0.0	32.08	V / 1.00 / 0	-75.83	-62.83
426 MHz maxed:						
425.97 MHz	67.6 Qp	1.71 / 16.18 / 27.9 / 0.0	57.59	V / 1.80 / 0	-50.32	-37.32
425.97 MHz	67.9 Qp	1.71 / 16.18 / 27.9 / 0.0	57.89	H / 1.00 / 50	-50.02	-37.02
74.41 MHz	44.5 Qp	0.7 / 7.82 / 27.0 / 0.0	26.02	H / 1.00 / 50	-81.89	-68.89
212.982 MHz	42.95 Qp	1.21 / 10.53 / 27.11 / 0.0	27.58	H / 1.00 / 50	-80.33	-67.33
284.0 MHz	56.15 Qp	1.5 / 12.56 / 27.43 / 0.0	42.78	H / 1.00 / 50	-65.13	-52.13
497.0 MHz	45.1 Qp	1.9 / 17.39 / 27.93 / 0.0	36.46	H / 1.00 / 50	-71.45	-58.45
639.004 MHz	43.35 Qp	2.1 / 19.5 / 28.2 / 0.0	36.75	H / 1.00 / 50	-71.16	-58.16
709.994 MHz	46.0 Qp	2.3 / 20.2 / 27.95 / 0.0	40.55	H / 1.00 / 50	-67.36	-54.36
994.0 MHz	42.7 Qp	2.73 / 22.66 / 27.57 / 0.0	40.53	H / 1.00 / 50	-67.38	-54.38
NOTE! 1957.5 MHz Tx setting:						
425.97 MHz	67.8 Qp	1.71 / 16.18 / 27.9 / 0.0	57.79	H / 1.00 / 50	-50.12	-37.12
57.042 MHz	37.35 Qp	0.6 / 12.49 / 27.0 / 0.0	23.44	H / 1.00 / 50	-84.47	-71.47
284.0 MHz	56.4 Qp	1.5 / 12.56 / 27.43 / 0.0	43.03	H / 1.00 / 50	-64.88	-51.88
639.004 MHz	43.3 Qp	2.1 / 19.5 / 28.2 / 0.0	36.7	H / 1.00 / 50	-71.21	-58.21
425.97 MHz	64.65 Qp	1.71 / 16.18 / 27.9 / 0.0	54.64	V / 1.00 / 50	-53.27	-40.27
31.566 MHz	40.45 Qp	0.44 / 20.4 / 27.34 / 0.0	33.95	V / 1.00 / 50	-73.96	-60.96
38.22 MHz	52.25 Qp	0.49 / 17.51 / 27.17 / 0.0	43.08	V / 1.00 / 50	-64.83	-51.83
38.706 MHz	46.45 Qp	0.49 / 17.32 / 27.15 / 0.0	37.11	V / 1.00 / 50	-70.8	-57.8
39.738 MHz	50.0 Qp	0.5 / 16.9 / 27.11 / 0.0	40.29	V / 1.00 / 50	-67.62	-54.62
44.82 MHz	53.45 Qp	0.6 / 15.35 / 27.06 / 0.0	42.34	V / 1.00 / 50	-65.57	-52.57
45.312 MHz	53.75 Qp	0.6 / 15.24 / 27.08 / 0.0	42.51	V / 1.00 / 50	-65.4	-52.4

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 4                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "D, B, &E" bands.

Data File Name: 5741-4.dat

Page: 3 of 7

## List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
57.042 MHz	51.75 Qp	0.6 / 12.49 / 27.0 / 0.0	37.84	V / 1.00 / 50	-70.07	-57.07
57.576 MHz	49.7 Qp	0.6 / 12.33 / 27.0 / 0.0	35.63	V / 1.00 / 50	-72.28	-59.28
58.116 MHz	55.05 Qp	0.6 / 12.17 / 27.0 / 0.0	40.82	V / 1.00 / 50	-67.09	-54.09
73.836 MHz	55.1 Qp	0.7 / 7.93 / 27.0 / 0.0	36.73	V / 1.00 / 50	-71.18	-58.18
74.41 MHz	54.0 Qp	0.7 / 7.82 / 27.0 / 0.0	35.52	V / 1.00 / 50	-72.39	-59.39
355.0 MHz	44.3 Qp	1.6 / 14.65 / 27.6 / 0.0	32.95	V / 1.00 / 50	-74.96	-61.96
568.0 MHz	37.7 Qp	2.03 / 18.42 / 28.1 / 0.0	30.05	V / 1.00 / 50	-77.86	-64.86
709.994 MHz	49.9 Qp	2.3 / 20.2 / 27.95 / 0.0	44.45	V / 1.00 / 50	-63.46	-50.46
781.0 MHz	36.0 Qp	2.39 / 21.54 / 27.83 / 0.0	32.1	V / 1.00 / 50	-75.81	-62.81
425.97 MHz	64.5 Qp	1.71 / 16.18 / 27.9 / 0.0	54.49	V / 1.00 / 50	-53.42	-40.42
NOTE! 1970 MHz Tx setting:						
425.97 MHz	64.55 Qp	1.71 / 16.18 / 27.9 / 0.0	54.54	V / 1.00 / 50	-53.37	-40.37
709.994 MHz	49.6 Qp	2.3 / 20.2 / 27.95 / 0.0	44.15	V / 1.00 / 50	-63.76	-50.76
425.97 MHz	66.5 Qp	1.71 / 16.18 / 27.9 / 0.0	56.49	H / 1.00 / 50	-51.42	-38.42
284.0 MHz	57.3 Qp	1.5 / 12.56 / 27.43 / 0.0	43.93	H / 1.00 / 50	-63.98	-50.98
497.0 MHz	45.7 Qp	1.9 / 17.39 / 27.93 / 0.0	37.06	H / 1.00 / 50	-70.85	-57.85
639.004 MHz	45.4 Qp	2.1 / 19.5 / 28.2 / 0.0	38.8	H / 1.00 / 50	-69.11	-56.11
761.271 MHz	34.8 Qp	2.35 / 21.31 / 27.9 / 0.0	30.56	H / 1.00 / 50	-77.35	-64.35
No significant emission level changes notes with different Tx settings.						
1.065 GHz	48.05 Pk	2.83 / 25.59 / 49.22 / 0.0	27.25	H / 1.00 / 50	-80.66	-67.66
1.136 GHz	50.9 Pk	2.93 / 25.51 / 49.55 / 0.0	29.78	H / 1.00 / 50	-78.13	-65.13
1.207 GHz	55.8 Pk	3.01 / 25.43 / 49.62 / 0.0	34.62	H / 1.00 / 50	-73.29	-60.29
1.278 GHz	59.65 Pk	3.1 / 25.35 / 49.25 / 0.0	38.84	H / 1.00 / 50	-69.07	-56.07
1.349 GHz	54.45 Pk	3.18 / 25.27 / 49.37 / 0.0	33.52	H / 1.00 / 50	-74.39	-61.39
1.42 GHz	56.55 Pk	3.3 / 25.19 / 49.65 / 0.0	35.38	H / 1.00 / 50	-72.53	-59.53

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 4                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %  
 EUT Description: SCS1900 MHz

Notes: "D, B, &E" bands.

Data File Name: 5741-4.dat

Page: 4 of 7

## List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.633 GHz	47.2 Pk	3.55 / 25.93 / 49.58 / 0.0	27.1	H / 1.00 / 50	-80.81	-67.81
1.704 GHz	48.55 Pk	3.62 / 26.38 / 49.76 / 0.0	28.79	H / 1.00 / 50	-79.12	-66.12
1.775 GHz	52.25 Pk	3.74 / 26.83 / 49.67 / 0.0	33.15	H / 1.00 / 50	-74.76	-61.76
1.846 GHz	55.55 Pk	3.83 / 27.27 / 49.79 / 0.0	36.86	H / 1.00 / 50	-71.05	-58.05
1.917 GHz	51.4 Pk	3.88 / 27.72 / 49.91 / 0.0	33.09	H / 1.00 / 50	-74.82	-61.82
1.988 GHz	47.6 Pk	3.9 / 28.17 / 49.65 / 0.0	30.01	H / 1.00 / 50	-77.9	-64.9
2.13 GHz	52.9 Pk	3.97 / 28.34 / 49.41 / 0.0	35.81	H / 1.00 / 50	-72.1	-59.1
2.272 GHz	46.7 Pk	4.15 / 28.46 / 49.07 / 0.0	30.24	H / 1.00 / 50	-77.67	-64.67
3.266 GHz	44.15 Pk	5.0 / 30.67 / 47.55 / 0.0	32.27	H / 1.00 / 50	-75.64	-62.64
3.266 GHz	44.55 Pk	5.0 / 30.67 / 47.55 / 0.0	32.67	H / 1.00 / 50	-75.24	-62.24
4.26 GHz	43.05 Pk	6.1 / 32.37 / 46.03 / 0.0	35.49	H / 1.00 / 50	-72.42	-59.42
1.97 GHz	62.85 Pk	3.9 / 28.05 / 49.72 / 0.0	45.08	H / 1.00 / 50	-62.83	-49.83
1.278 GHz maxed:						
1.278 GHz	64.8 Pk	3.1 / 25.35 / 49.25 / 0.0	43.99	H / 1.00 / 74	-63.92	-50.92
1.97 GHz	60.65 Pk	3.9 / 28.05 / 49.72 / 0.0	42.88	H / 1.00 / 74	-65.03	-52.03
1.97 GHz	65.8 Pk	3.9 / 28.05 / 49.72 / 0.0	48.03	H / 1.00 / 75	-59.88	-46.88
1.97 GHz	69.15 Pk	3.9 / 28.05 / 49.72 / 0.0	51.38	V / 1.47 / 137	-56.53	-43.53
4.544 GHz	43.05 Pk	6.15 / 32.39 / 45.32 / 0.0	36.27	V / 1.47 / 137	-71.64	-58.64
4.402 GHz	45.35 Pk	6.1 / 32.33 / 45.82 / 0.0	37.95	V / 1.47 / 137	-69.96	-56.96
2.698 GHz	48.4 Pk	4.48 / 29.21 / 48.26 / 0.0	33.83	V / 1.47 / 137	-74.08	-61.08
2.13 GHz	59.45 Pk	3.97 / 28.34 / 49.41 / 0.0	42.36	V / 1.47 / 137	-65.55	-52.55
1.988 GHz	54.0 Pk	3.9 / 28.17 / 49.65 / 0.0	36.41	V / 1.47 / 137	-71.5	-58.5
1.917 GHz	58.15 Pk	3.88 / 27.72 / 49.91 / 0.0	39.84	V / 1.47 / 137	-68.07	-55.07
1.846 GHz	59.55 Pk	3.83 / 27.27 / 49.79 / 0.0	40.86	V / 1.47 / 137	-67.05	-54.05
1.633 GHz	49.1 Pk	3.55 / 25.93 / 49.58 / 0.0	29.0	V / 1.47 / 137	-78.91	-65.91
1.349 GHz	58.65 Pk	3.18 / 25.27 / 49.37 / 0.0	37.72	V / 1.47 / 137	-70.19	-57.19

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 4                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz


Notes: "D, B, &E" bands.

Data File Name: 5741-4.dat                      Page: 5 of 7

## List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
1.207 GHz	63.8 Pk	3.01 / 25.43 / 49.62 / 0.0	42.62	V / 1.47 / 137	-65.29	-52.29
1.136 GHz	60.15 Pk	2.93 / 25.51 / 49.55 / 0.0	39.03	V / 1.47 / 137	-68.88	-55.88
1.065 GHz	57.65 Pk	2.83 / 25.59 / 49.22 / 0.0	36.85	V / 1.47 / 137	-71.06	-58.06
NOTE 1957.5 MHz Tx setting:						
1.958 GHz	71.45 Pk	3.9 / 27.97 / 49.76 / 0.0	53.56	V / 1.47 / 137	-54.35	-41.35
1.278 GHz	64.2 Pk	3.1 / 25.35 / 49.25 / 0.0	43.39	H / 1.47 / 137	-64.52	-51.52
1.349 GHz	60.35 Pk	3.18 / 25.27 / 49.37 / 0.0	39.42	V / 1.50 / 137	-68.49	-55.49
No emission levels changes noted:						
NOTE! 1945 MHz Tx setting:						
1.945 GHz	62.95 Pk	3.9 / 27.9 / 49.81 / 0.0	44.94	V / 1.50 / 137	-62.97	-49.97
5.396 GHz	42.4 Pk	6.74 / 33.94 / 44.76 / 0.0	38.32	V / 1.26 / 201	-69.59	-56.59
5.112 GHz	41.75 Pk	6.57 / 33.55 / 44.66 / 0.0	37.21	V / 1.26 / 201	-70.7	-57.7
4.26 GHz	45.3 Pk	6.1 / 32.37 / 46.03 / 0.0	37.74	V / 1.26 / 201	-70.17	-57.17
3.692 GHz	46.45 Pk	5.56 / 31.67 / 46.95 / 0.0	36.72	V / 1.26 / 201	-71.19	-58.19
3.55 GHz	44.1 Pk	5.38 / 31.31 / 47.17 / 0.0	33.63	V / 1.26 / 201	-74.28	-61.28
3.266 GHz	45.1 Pk	5.0 / 30.67 / 47.55 / 0.0	33.22	V / 1.26 / 201	-74.69	-61.69
2.84 GHz	51.05 Pk	4.6 / 29.62 / 48.37 / 0.0	36.9	V / 1.26 / 201	-71.01	-58.01
1.988 GHz	57.25 Pk	3.9 / 28.17 / 49.65 / 0.0	39.66	V / 1.26 / 201	-68.25	-55.25
1.775 GHz	54.95 Pk	3.74 / 26.83 / 49.67 / 0.0	35.85	V / 1.26 / 201	-72.06	-59.06
1.704 GHz	52.25 Pk	3.62 / 26.38 / 49.76 / 0.0	32.49	V / 1.26 / 201	-75.42	-62.42
1.633 GHz	55.25 Pk	3.55 / 25.93 / 49.58 / 0.0	35.15	V / 1.26 / 201	-72.76	-59.76
1.42 GHz	63.7 Pk	3.3 / 25.19 / 49.65 / 0.0	42.53	V / 1.26 / 201	-65.38	-52.38
1.278 GHz maxed:						
1.278 GHz	62.65 Pk	3.1 / 25.35 / 49.25 / 0.0	41.84	H / 1.20 / 36	-66.07	-53.07

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# RADIATED EMISSIONS



Test Report #: WC505741 Run 4                      Test Area: LTS  
 EUT Model #: DGVC-431X0000100SYS                      Date: 11/8/2005  
 EUT Serial #: n/a                      EUT Power: 60 Hz / 120 VAC                      Temperature: 22.0 °C  
 Test Method: FCC Part 24E                      Air Pressure: 98.0 kPa  
 Customer: ADC Telecommunications                      Rel. Humidity: 30.0 %

EUT Description: SCS1900 MHz


Notes: "D, B, &E" bands.

Data File Name: 5741-4.dat                      Page: 6 of 7

## List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13dBm Limit
Noise floor measurements:						
6.0 GHz	34.15 Pk	7.1 / 34.36 / 45.74 / 0.0	29.87	H / 1.20 / 36	-78.04	-65.04
7.0 GHz	34.25 Pk	8.1 / 35.36 / 45.8 / 0.0	31.91	H / 1.20 / 36	-76	-63
8.0 GHz	33.65 Pk	8.43 / 36.91 / 45.29 / 0.0	33.7	H / 1.20 / 36	-74.21	-61.21
9.0 GHz	36.05 Pk	9.28 / 37.34 / 44.57 / 0.0	38.11	H / 1.20 / 36	-69.8	-56.8
10.0 GHz	34.75 Pk	9.71 / 38.07 / 44.95 / 0.0	37.58	H / 1.20 / 36	-70.33	-57.33
11.0 GHz	35.8 Pk	10.05 / 38.31 / 44.96 / 0.0	39.2	H / 1.20 / 36	-68.71	-55.71
12.0 GHz	37.2 Pk	10.5 / 39.26 / 44.61 / 0.0	42.35	H / 1.20 / 36	-65.56	-52.56
13.0 GHz	31.45 Pk	10.82 / 39.74 / 44.85 / 0.0	37.15	H / 1.20 / 36	-70.76	-57.76
14.0 GHz	29.75 Pk	11.01 / 41.87 / 43.92 / 0.0	38.71	H / 1.20 / 36	-69.2	-56.2
15.0 GHz	28.95 Pk	11.53 / 39.68 / 44.28 / 0.0	35.88	H / 1.20 / 36	-72.03	-59.03
16.0 GHz	23.85 Pk	12.06 / 37.76 / 44.69 / 0.0	28.98	H / 1.20 / 36	-78.93	-65.93
17.0 GHz	29.0 Pk	12.43 / 41.83 / 45.45 / 0.0	37.81	H / 1.20 / 36	-70.1	-57.1
18.0 GHz	27.9 Pk	13.5 / 47.44 / 45.08 / 0.0	43.76	H / 1.20 / 36	-64.15	-51.15

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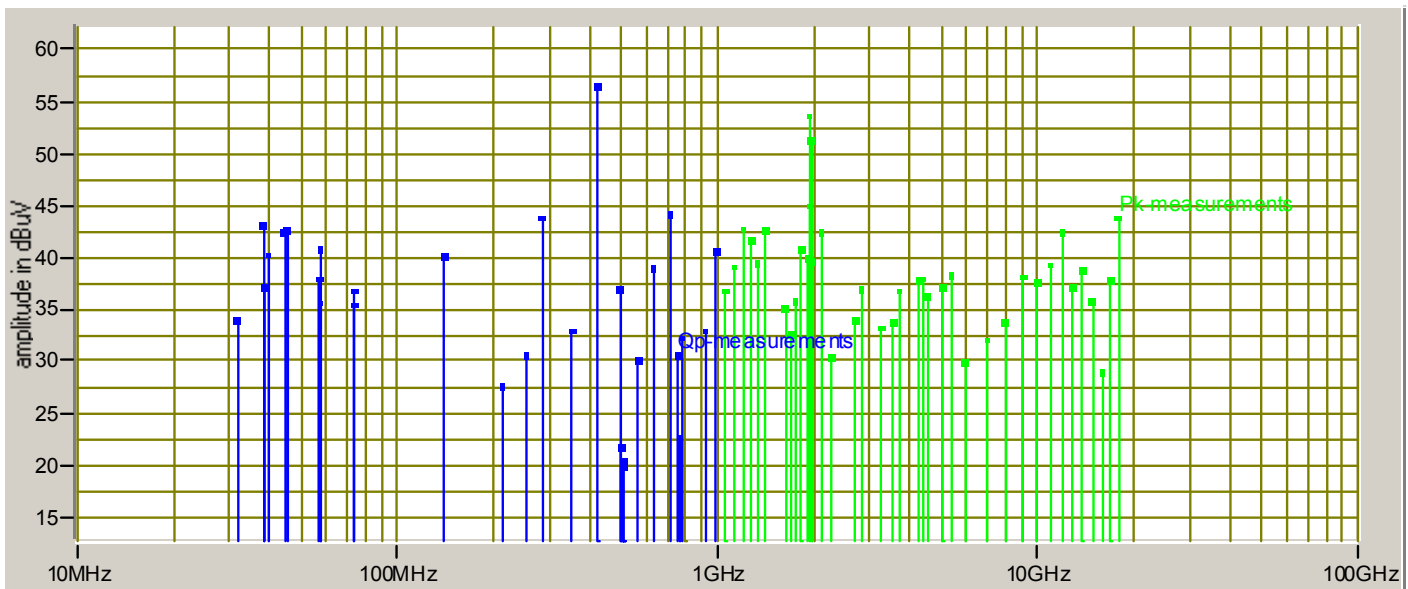
# RADIATED EMISSIONS



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Test Report #: WC505741 Run 4 Test Area: LTS  
EUT Model #: DGVC-431X0000100SYS Date: 11/8/2005  
EUT Serial #: n/a EUT Power: 60 Hz / 120 VAC Temperature: 22.0 °C  
Test Method: FCC Part 24E Air Pressure: 98.0 kPa  
Customer: ADC Telecommunications Rel. Humidity: 30.0 %  
EUT Description: SCS1900 MHz  
Notes: "D, B, &E" bands.  
Data File Name: 5741-4.dat Page: 7 of 7

## Graph:



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