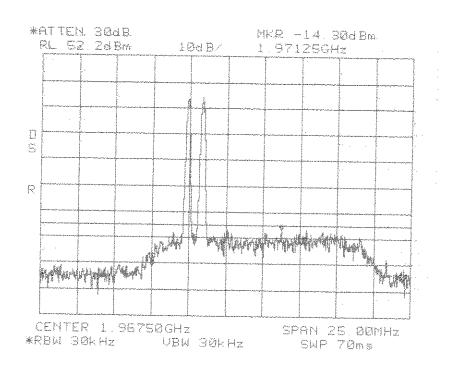
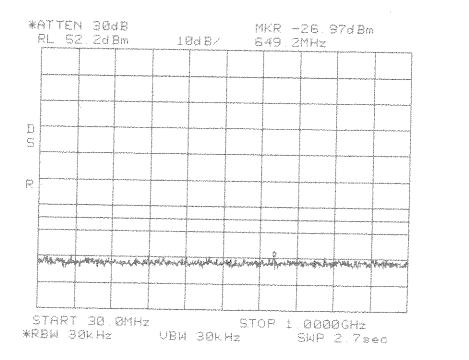
Inter-Modulation Test for ADC Inc Digivance CXD Model Number DGVF-05000000XXCRN

The inter-modulation products test was performed for the EUT. Three tests were preformed with the modulation type. Test 1 was with 2 signals input to the EUT at lower end channels. Test 2 was with 2 signals input to the EUT at upper end channels. Test 3 was with 2 signals, one at a lower end channel and one at a higher end channel. The modulations type tested was GSM, CDMA, and CDMA2000. An investigation was made from 30 MHz to the 10th Harmonic of the highest fundamental frequency (~20 GHz). The following plots show the results.

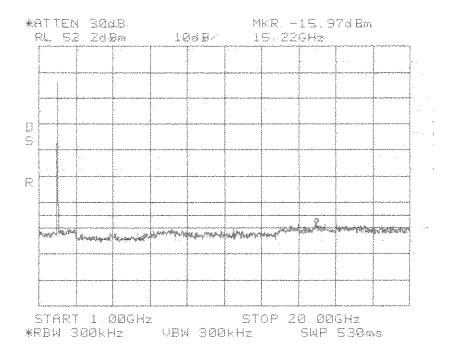
Results: (See Plots)

Intermodulation Close Lower GSM PCS 1900 MHz E Band



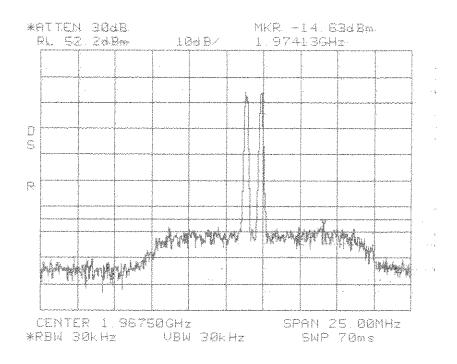


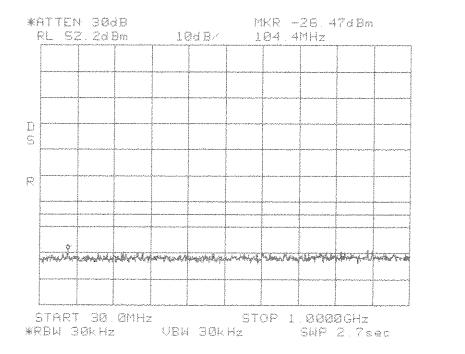
Intermodulation Close Lower GSM PCS 1900 MHz E Band



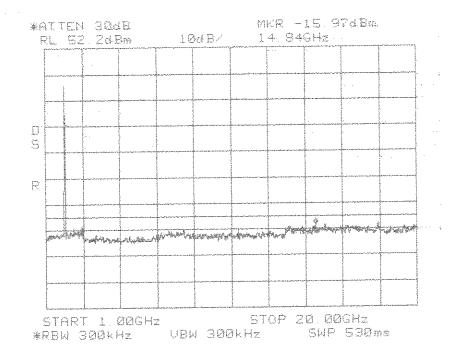
Intermodulation Close Lower GSM PCS 1900 MHz E Band

Intermodulation Close Upper GSM PCS 1900 MHz E Band

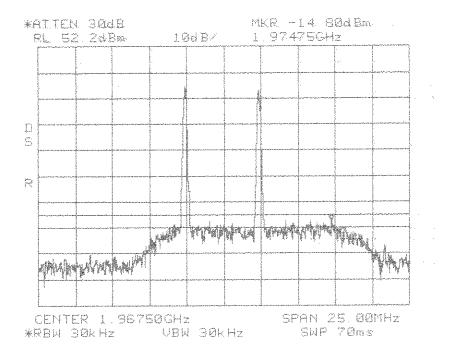




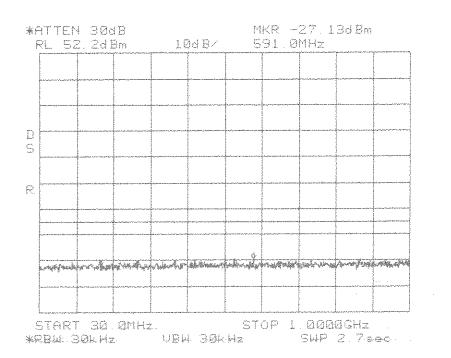
Intermodulation Close Upper GSM PCS 1900 MHz E Band



Intermodulation Close Upper GSM PCS 1900 MHz E Band



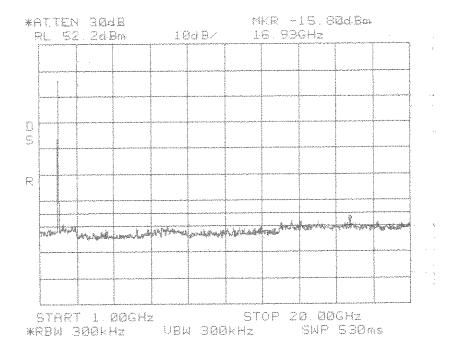
Intermodulation Apart GSM PCS 1900 MHz E Band



Intermodulation Apart GSM PCS 1900 MHz E Band

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

ALCONO.



Intermodulation Apart GSM PCS 1900 MHz E Band

Intermodulation

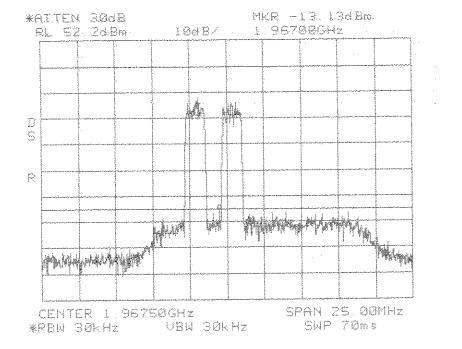
PCS 1900 MHz

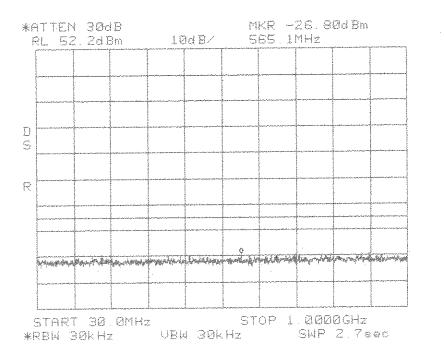
Close

Lower

CDMA

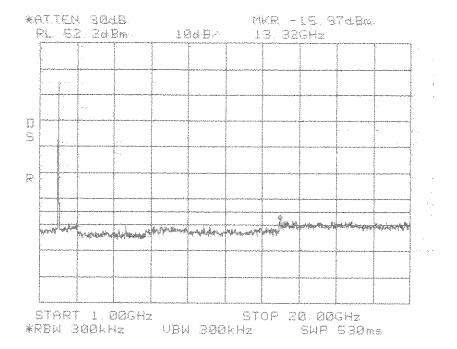
E Band





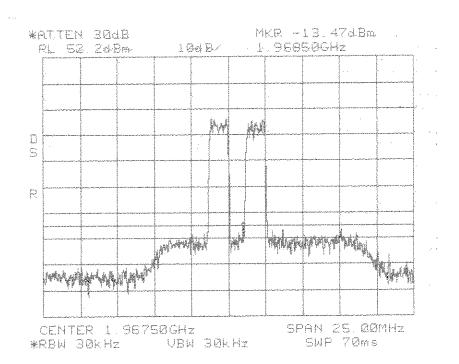
Intermodulation Close Lower CDMA PCS 1900 MHz E Band

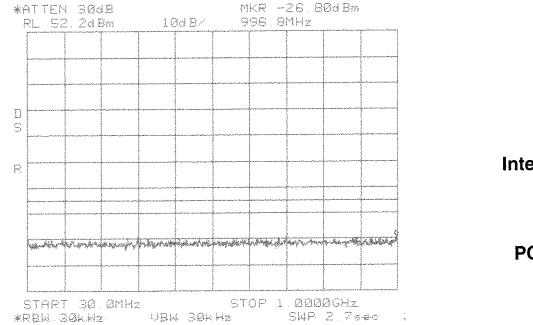
Span: 30 MHz to 1 GHz RBW/VBW: 30 kHz



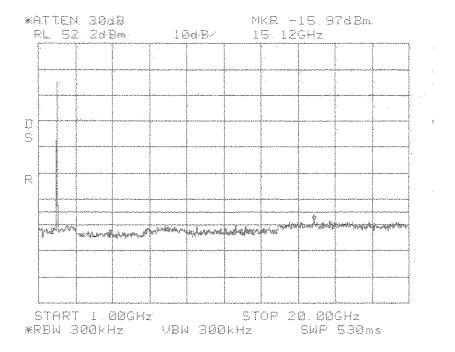
Intermodulation Close Lower CDMA PCS 1900 MHz E Band

Intermodulation Close Upper CDMA PCS 1900 MHz E Band

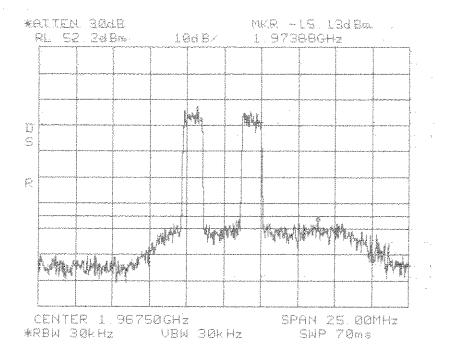


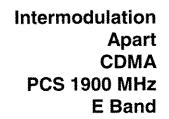


Intermodulation Close Upper CDMA PCS 1900 MHz E Band



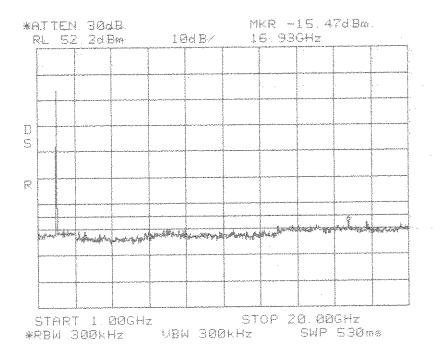
Intermodulation Close Upper CDMA PCS 1900 MHz E Band





*ATTEN 30dB RL 52.2dBm 10dB/ 576.4MHz D D S R S TART 30.0MHz *RBW 30kHz UBW 30kHz SWP 2.7sec

Intermodulation Apart CDMA PCS 1900 MHz E Band

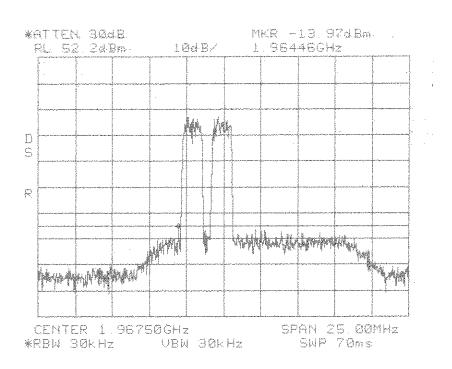


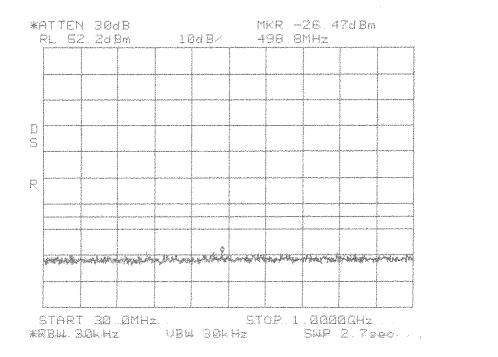
Intermodulation Apart CDMA PCS 1900 MHz E Band

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Intermodulation Close Lower CDMA2000 PCS 1900 MHz E Band 1xRTT





Intermodulation Close Lower CDMA2000 PCS 1900 MHz E Band 1xerT

Intermodulation

Close Lower

E Band

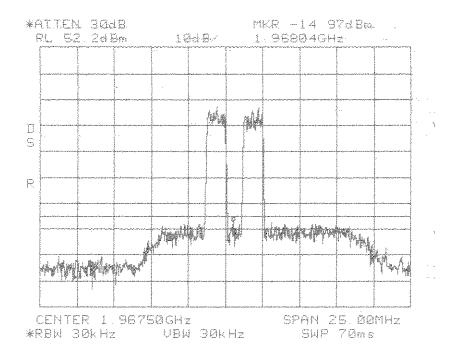
1xRTT

CDMA2000

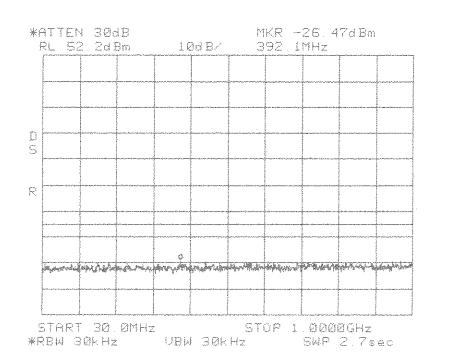
PCS 1900 MHz

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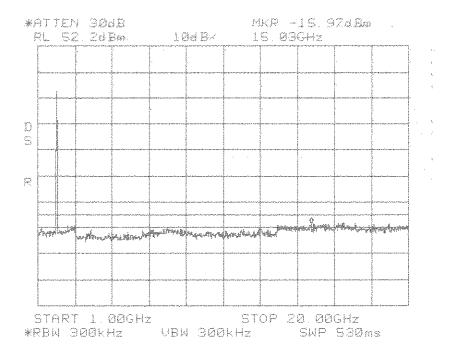
START 1.00GHz STOP 20.00GHz *RBW 900kHz UBW 300kHz SWP 530ms .



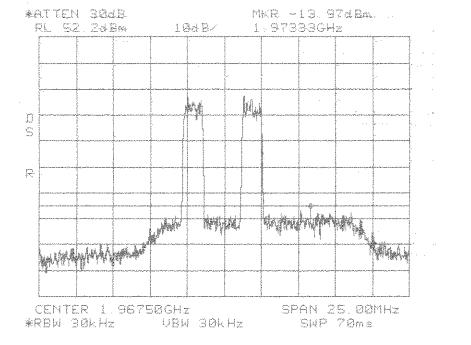
Intermodulation Close Upper CDMA2000 PCS 1900 MHz E Band 1xktT



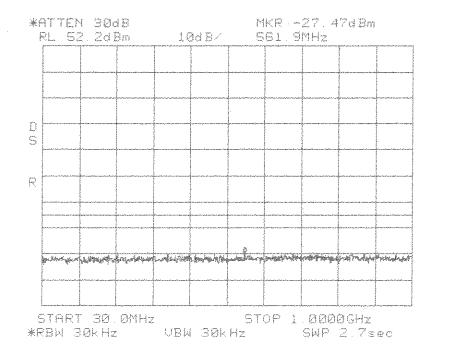
Intermodulation Close Upper CDMA2000 PCS 1900 MHz E Band 1xRTT

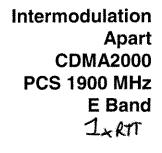


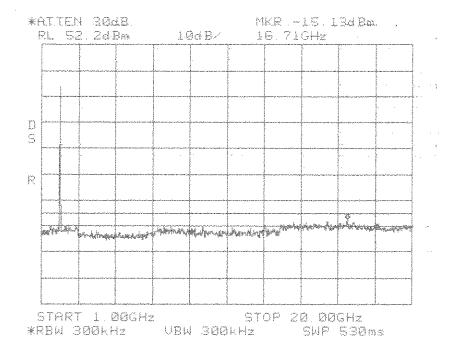
Intermodulation Close Upper CDMA2000 PCS 1900 MHz E Band L×RTT





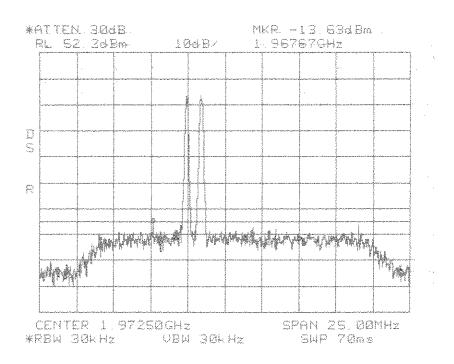


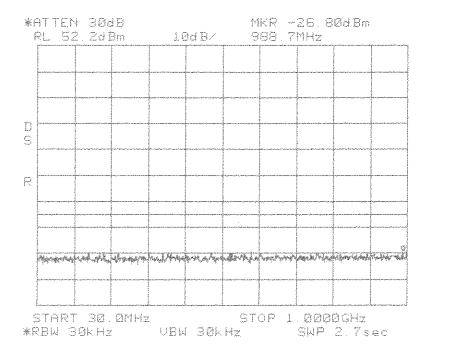




Intermodulation Apart CDMA2000 PCS 1900 MHz E Band 1_xRTT

Intermodulation Close Lower GSM PCS 1900 MHz F Band

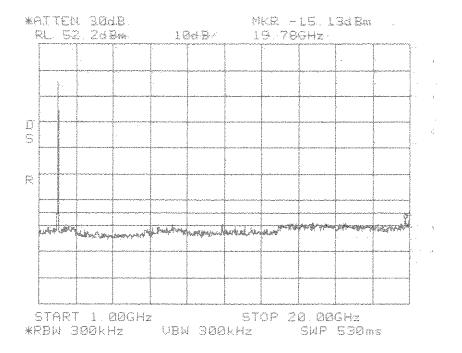




Intermodulation Close Lower GSM PCS 1900 MHz F Band

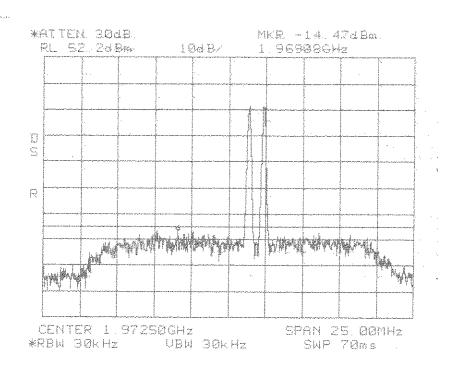
Span: 30 MHz to 1 GHz RBW/VBW: 30 kHz

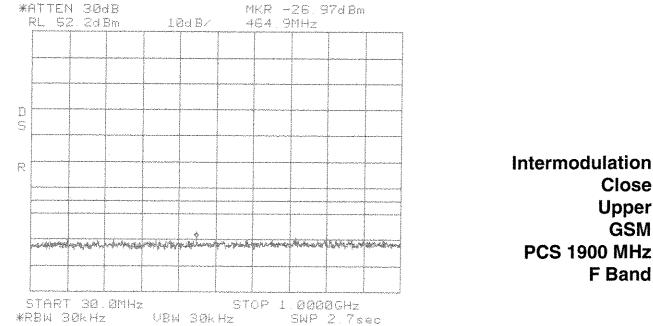
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Intermodulation Close Lower GSM PCS 1900 MHz F Band

Intermodulation Close Upper GSM **PCS 1900 MHz** F Band





Close Upper GSM **PCS 1900 MHz** F Band

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Intermodulation Close Upper GSM PCS 1900 MHz F Band

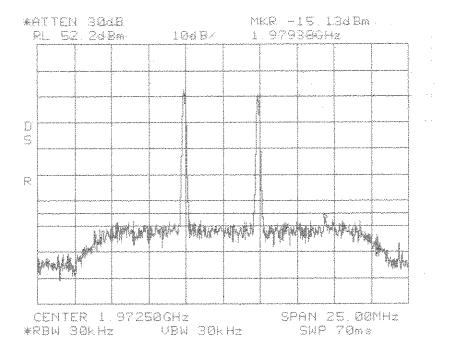
Intermodulation

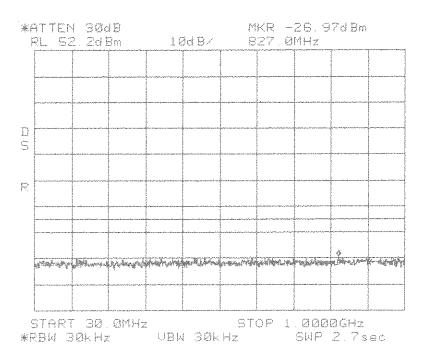
PCS 1900 MHz

Apart

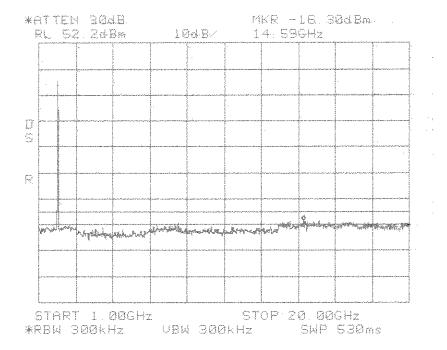
GSM

F Band



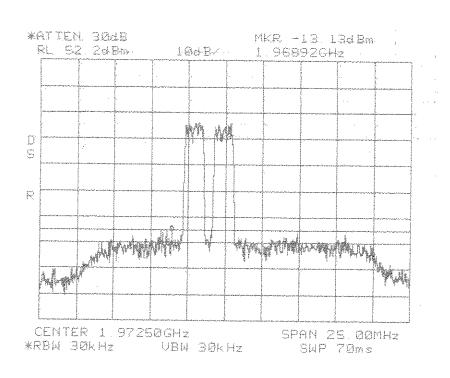


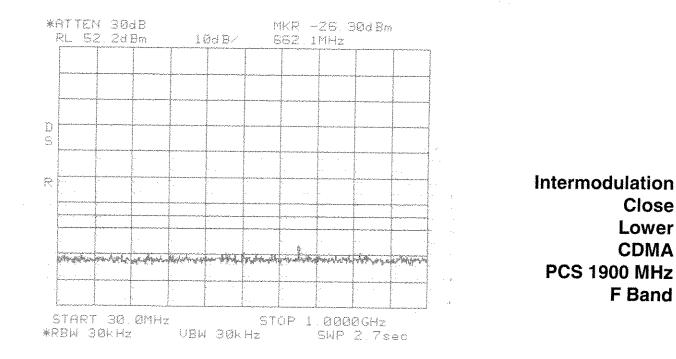
Intermodulation Apart GSM PCS 1900 MHz F Band

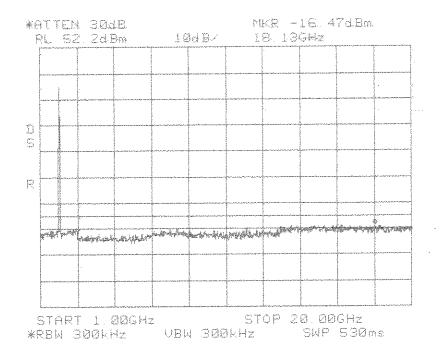


Intermodulation Apart GSM PCS 1900 MHz F Band

Intermodulation Close Lower CDMA PCS 1900 MHz F Band

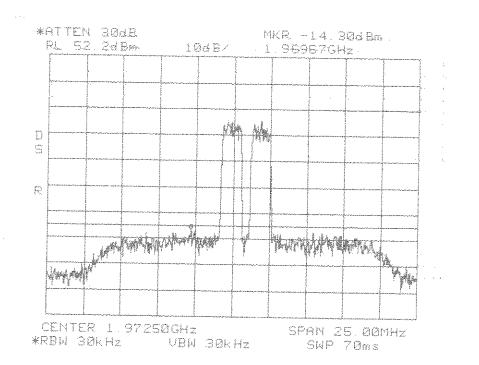




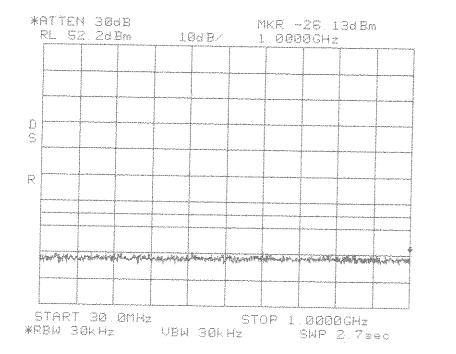


Intermodulation Close Lower CDMA PCS 1900 MHz F Band

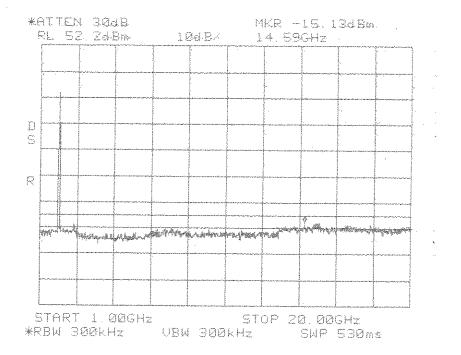
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Intermodulation Close Upper CDMA PCS 1900 MHz F Band



Intermodulation Close Upper CDMA PCS 1900 MHz F Band



Intermodulation Close Upper CDMA PCS 1900 MHz F Band

Rev A

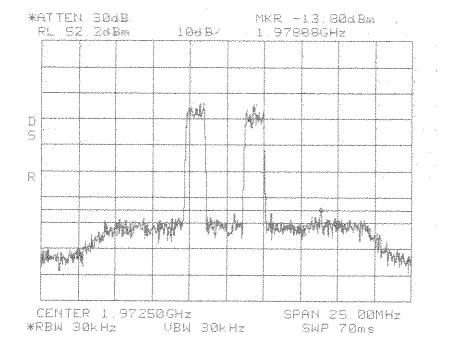
Intermodulation

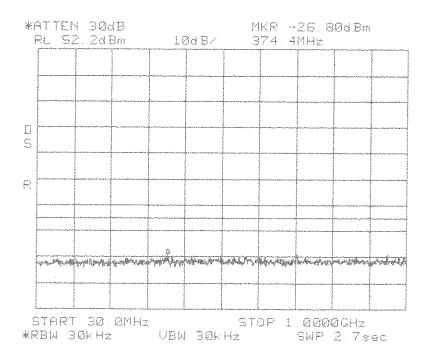
PCS 1900 MHz

Apart

CDMA

F Band

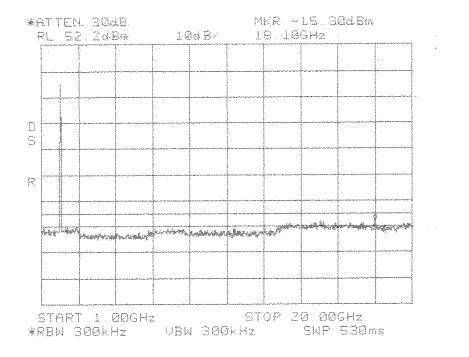




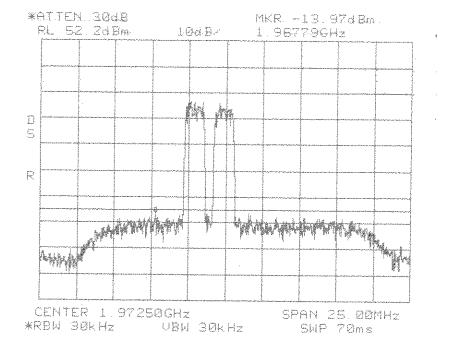
Intermodulation Apart CDMA PCS 1900 MHz F Band

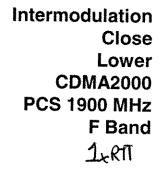
Span: 30 MHz to 1 GHz RBW/VBW: 30 kHz

Rev A



Intermodulation Apart CDMA PCS 1900 MHz F Band





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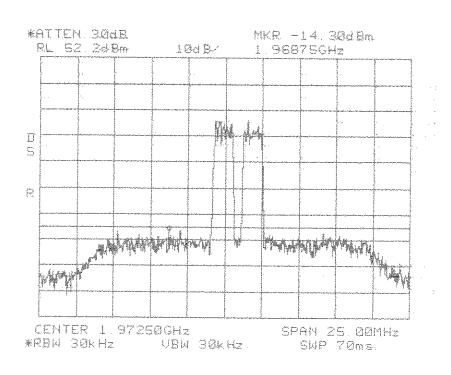
Intermodulation Close Lower CDMA2000 PCS 1900 MHz F Band 1×RT

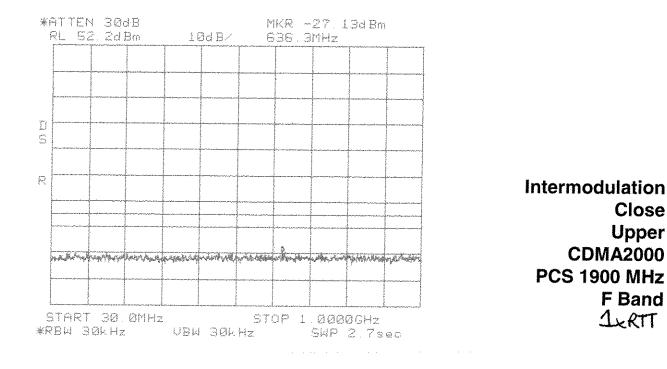
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Intermodulation Close Lower CDMA2000 PCS 1900 MHz F Band 1xRTT

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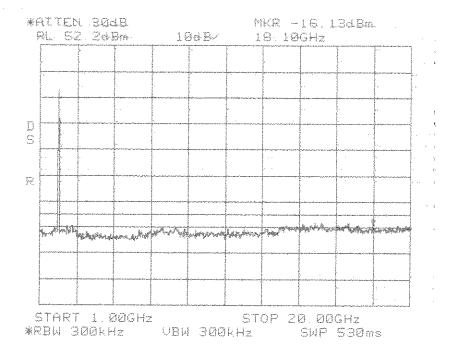
Intermodulation Close Upper **CDMA2000 PCS 1900 MHz** F Band 1.RTT



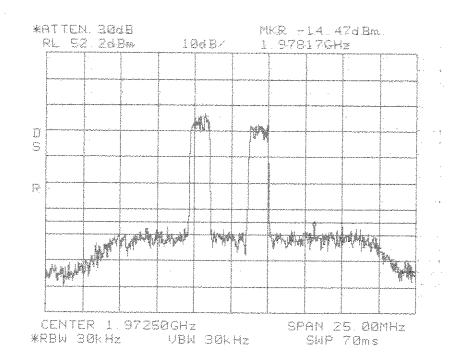


Span: 30 MHz to 1 GHz RBW/VBW: 30 kHz

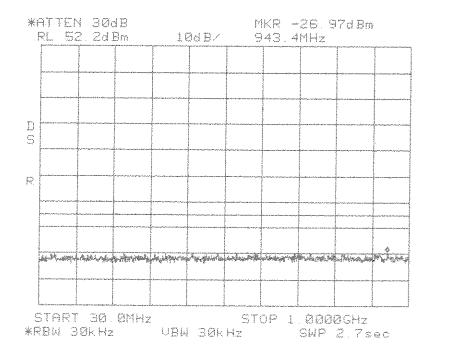
Close Upper



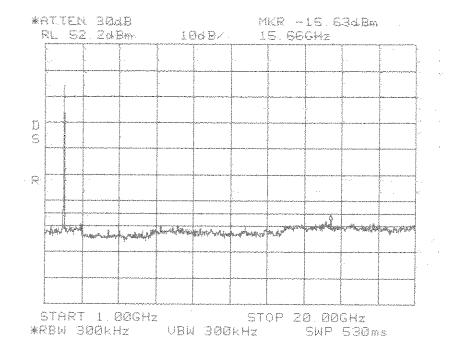
Intermodulation Close Upper CDMA2000 PCS 1900 MHz F Band



Intermodulation Apart CDMA2000 PCS 1900 MHz F Band 1xRTT



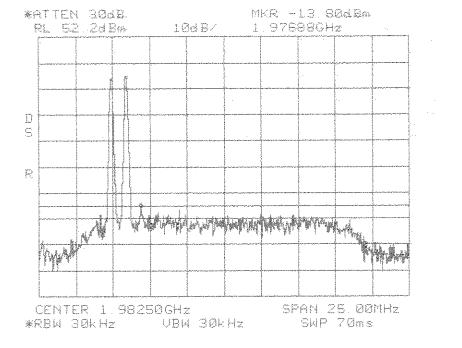
Intermodulation Apart CDMA2000 PCS 1900 MHz F Band Lect



Intermodulation Apart CDMA2000 PCS 1900 MHz F Band 1xert

File No. WC506388.2, Page A106 of A124

Rev A



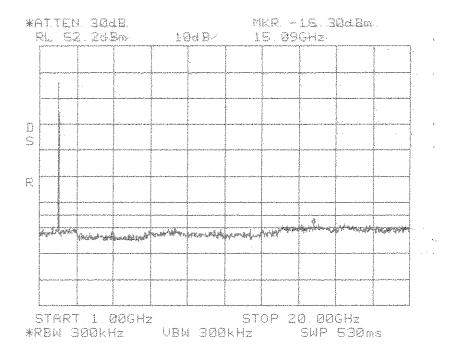
Intermodulation Close Lower GSM PCS 1900 MHz C Band

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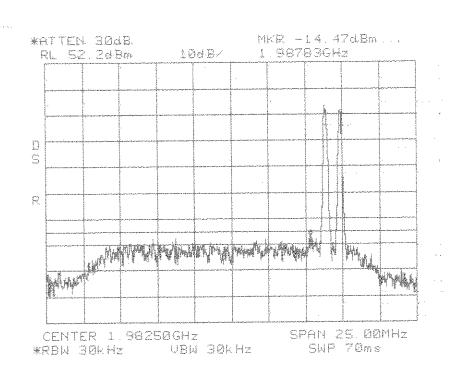
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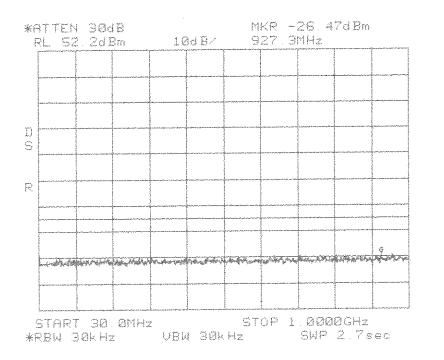
Intermodulation Close Lower GSM PCS 1900 MHz C Band



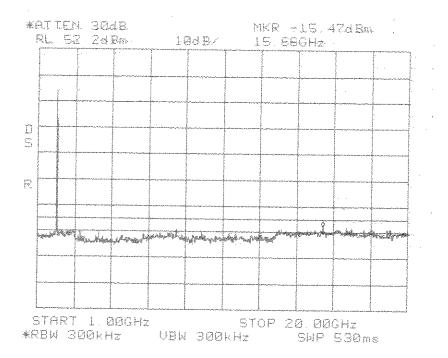
Intermodulation Close Lower GSM PCS 1900 MHz C Band

Intermodulation Close Upper GSM PCS 1900 MHz C Band



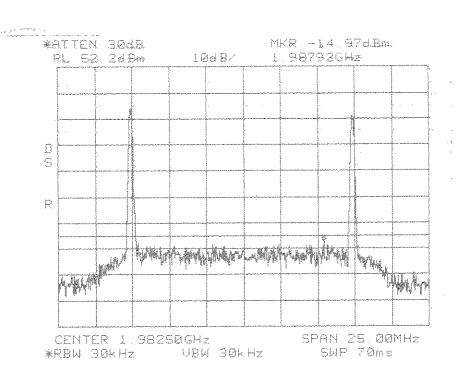


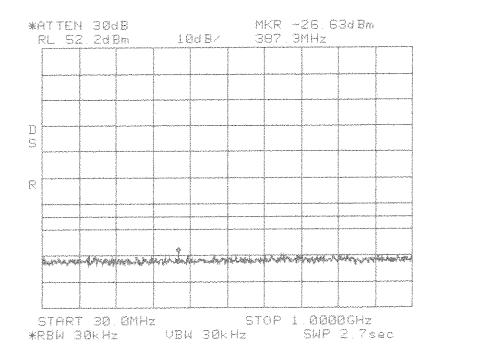
Intermodulation Close Upper GSM PCS 1900 MHz C Band



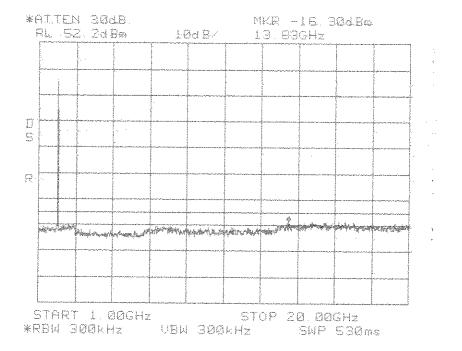
Intermodulation Close Upper GSM PCS 1900 MHz C Band

Intermodulation Apart GSM PCS 1900 MHz C Band



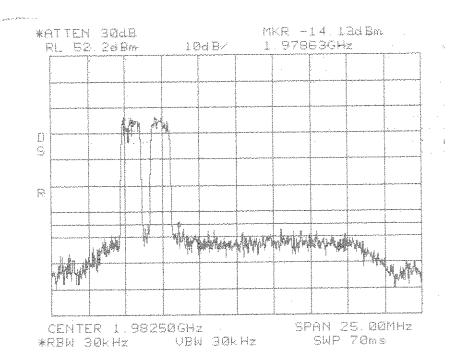


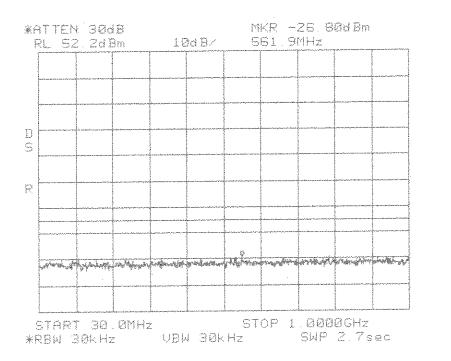
Intermodulation Apart GSM PCS 1900 MHz C Band



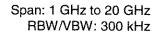
Intermodulation Apart GSM PCS 1900 MHz C Band

Intermodulation Close Lower CDMA PCS 1900 MHz C Band

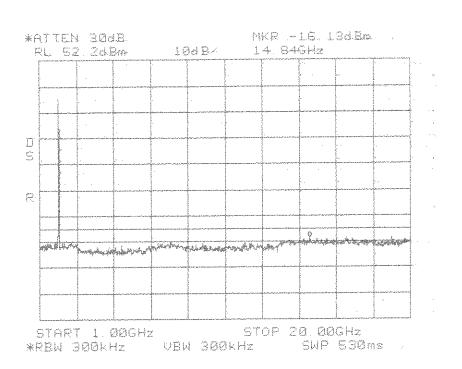


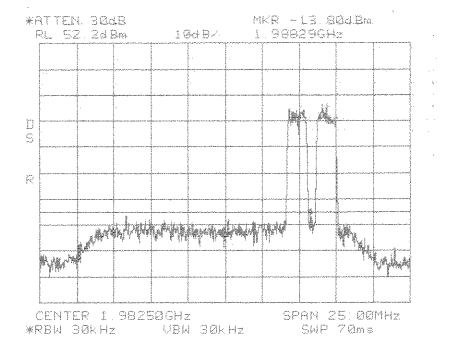


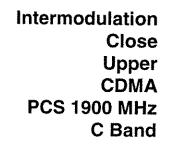
Intermodulation Close Lower CDMA PCS 1900 MHz C Band



Intermodulation Close Lower CDMA PCS 1900 MHz C Band



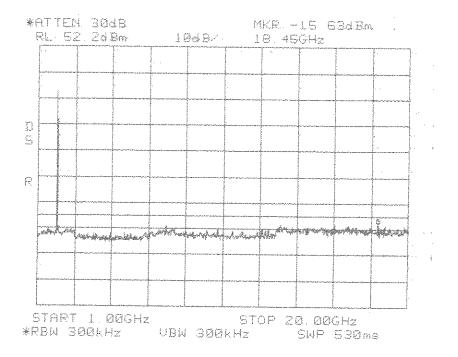




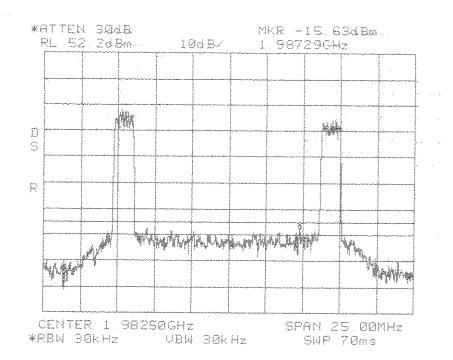
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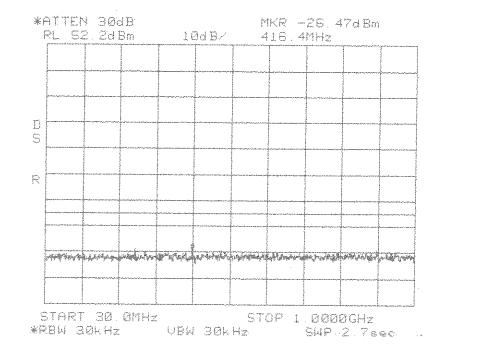
Intermodulation Close Upper CDMA PCS 1900 MHz C Band



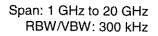
Intermodulation Close Upper CDMA PCS 1900 MHz C Band

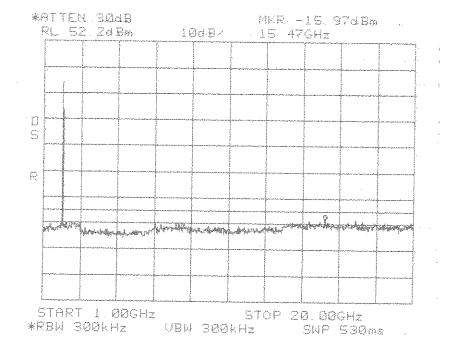


Intermodulation Apart CDMA PCS 1900 MHz C Band

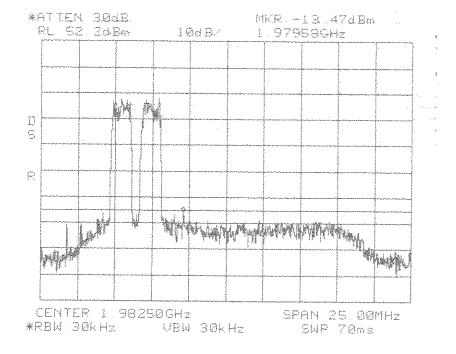


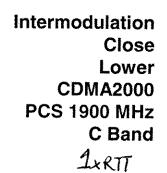
Intermodulation Apart CDMA PCS 1900 MHz C Band





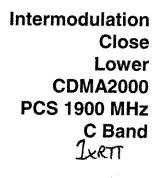
Intermodulation Apart CDMA PCS 1900 MHz C Band

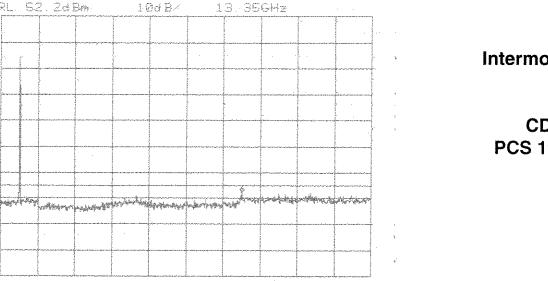




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MKR -15.63dBm



*ATTEN 30dB.

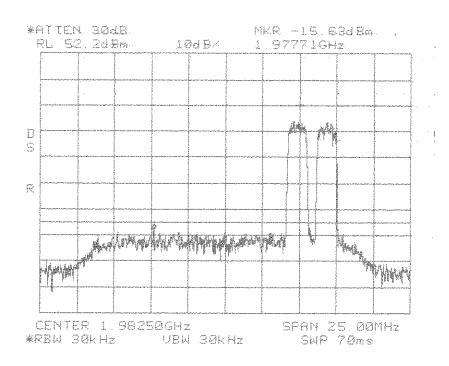
RL S2.2dBm

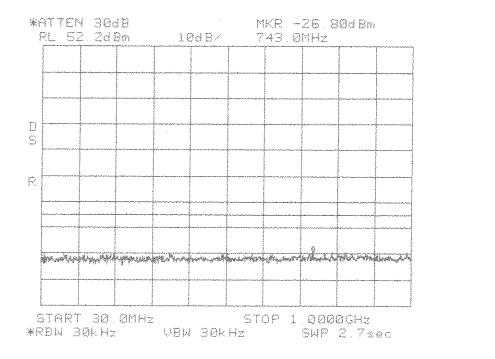
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5

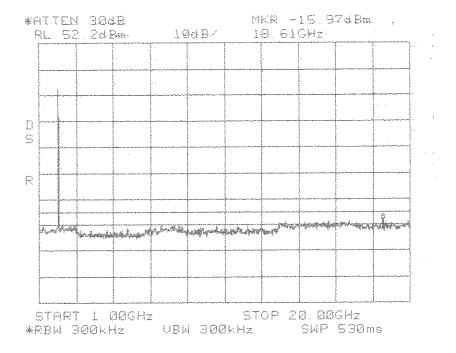
Intermodulation Close Lower **CDMA2000 PCS 1900 MHz** C Band JXRTT

Intermodulation Close Upper CDMA2000 PCS 1900 MHz C Band 1xRTT

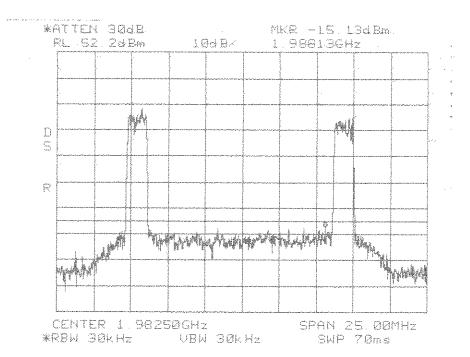




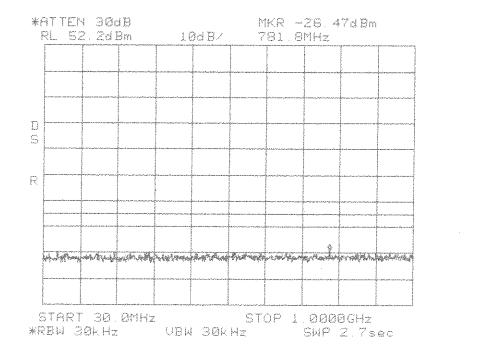
Intermodulation Close Upper CDMA2000 PCS 1900 MHz C Band LkRTT



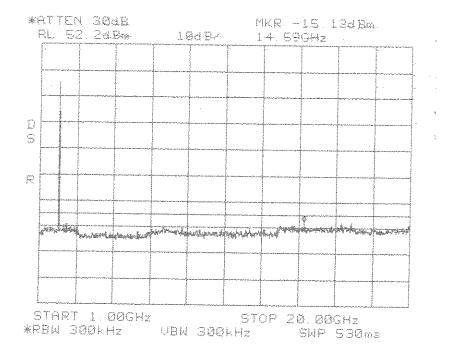
Intermodulation Close Upper CDMA2000 PCS 1900 MHz C Band



Intermodulation Apart CDMA2000 PCS 1900 MHz C Band



Intermodulation Apart CDMA2000 PCS 1900 MHz C Band Lett



Intermodulation Apart CDMA2000 PCS 1900 MHz C Band 1xen



Appendix B

Constructional Data Form

Rev A TÜV AMERICA INC

Taylors Falls MN 55084-1758

File No. WC506388.2, Page B1 of B8

Tel: 651 638 0297

Fax: 651 638 0298 112205



PLEASE COMPLETE TH	PLEASE COMPLETE THIS DOCUMENT IN FULL, ENTERING N/A IF THE FIELD IS NOT APPLICABLE.						
	his information will be input into ime to get HELP for the current fi			own belo	DW.		
Company:	ADC Inc.						
Address:	P.O. Box 1101						
	Minneapolis, MN 55440-1	101					
Contact:	Mark F. Miska		Position	n: <u>C</u>	ompliance Eng	ineer	
Phone:	952-403-8340		Fax:	9	52-403-8858		
E-mail Address:	mark.miska@adc.com		_				
General Equipment	Description NOTE: This in	nformation	will be inp	ut into yc	our test report as s	shown be	elow.
EUT Description	Transports RF between a	remote a	intenna a	nd base	e station.		
EUT Name	Digivance® CXD 1900 MH	Hz EFC E	Band				
Model No.: DGVF-05000000XXCRN Serial No.: None							
Product Options: Receive Diversity							
Configurations to be	tested: PCS 1900 MHz	z E, F, ar	nd C Ban	d			
Test Objective							
EMC Directive 89)/336/EEC (EMC)	FC	CC:	Class	🗌 A 🗌 B	Part	24
Std:			CCI:	Class	🗆 А 🗌 В	-	
Machinery Direct	ve 89/392/EEC (EMC	В	CIQ:	Class	🗌 A 🗌 B		
Std:		🗌 Ca	anada:	Class	🗌 A 🗌 B		
Medical Device D	Pirective 93/42/EEC (EMC)	Δ Αι	ustralia:	Class	🗌 А 🗌 В		
Std: FDA Reviewers C	72/245/EEC (EMC) Guidance for Premarket omissions (EMC)	Ot	her:				
TÜV Product Servio	ce Certification Requested						
Attestation of Con	• • •				Mark (IEM)		
Certificate of Cor			Complianc	e Docu			!!!
Protection Class	(N/A for vehicles)	ЦC	lass I		Class II		ass III

FILE: EMCU_F09.02E, REVISION 0, Effective: October 26, 1999



(Press **F1** when field is selected to show additional information on Protection Class.)

Attendance						
Test will be: 🛛 Attended by the customer 🗌 Unattended by the customer						
Failure - Complete this section if testing will not be attended by the customer.						
If a failure occurs, TUV Product Service should: Call contact listed above, if not available then stop testing. (After hrs phone):						
 Continue testing to complete test series. Continue testing to define corrective action. Stop testing. 						
EUT Specifications and Requirements						
Length: 18" Width: 11" Height: 23" Weight: 95 LBS						
Power Requirements						
Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)						
Voltage: <u>176-238 VAC</u> (If battery powered, make sure battery life is sufficient to complete testing.)						
# of Phases: 1						
CurrentCurrent(Amps/phase(max)):6/4(Amps/phase(nominal)):4						
Other						
Other Special Requirements						
none						

Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.) Host indoor only with Remote Unit indoor or outdoor. System is typically employed as a Microcell.



EUT	EUT Power Cable						
	Permanent	OR	\boxtimes	Removable	Length (in meters):	1	
	Shielded	OR	\boxtimes	Unshielded			
	Not Applicabl	е					

FILE: EMCU_F09.02E, REVISION 0, Effective: October 26, 1999



Interface				Shi	eldi	ng					
Туре	Analog	Digita	Qty	Yes	N	Туре	Termination	Connector Type	Port Termination	Length (in meters)	Removable
EXAMPLE:								Metallized 9-	Characteristic		
RS232		×	2	×		Foil over braid	Coaxial	pin D-Sub	Impedance	6	
RF "N" type			2			Braid	Coaxial	N	50 Ohms	2	
RF "SMA" type			63			Braid	Coaxial	SMA	50 Ohms	3	
12V DC			5			N/A	N/A	3 Pin Standoff		3	
Fiber			4			N/A	N/A	SC	N/A	3	
PA CNTRL			2			N/A	N/A	8 Pin Standoff		3	
AC power			3			N/A				3	
Battery Connection			9			N/A	N/A	2 Pin Standoff		1	
RJ-45			117			N/A	N/A	RJ-45		1	
RS-232			4			N/A	N/A	9 Pin D-Sub		1	
Fan Power			2			N/A	N/A	18 Pin Standoff		1	
USB			1			N/A	N/A	USB		1	



EUT Software	
Revision Level:	SNMP v1 & v2
Description:	Digivance Element Management System (DEMS). System Management and Interface Matching Software.

EUT Operating Modes to be Tested -- list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

- 1. Max composite out
- 2.
- 3.

Description	Model #	Serial #	FCC ID #
HUB	OP-DC-DIGCH2	None	
RAN	DGVF- 0204000023CRN	None	
Digivance CXD System consis the HUB and RAN.	st of	None	

FILE: EMCU_F09.02E, REVISION 0, Effective: October 26, 1999



Support Equipment List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc)						
Description	Model #	Serial #	FCC ID #			
Power Supply	Xantrex HPD 60-5	MC 27764				
Signal Generator	Agilent E4436B	963739				
Ethernet Switch	Netgear	N/A				

Oscillator Frequencies

Frequency	Derived Frequency	Component # / Location	Description of Use

Power Supply							
Manufacturer	Model #	Serial #	Туре				
			Switched-mode: (Frequency) Linear Other:				
			Switched-mode: (Frequency)				

Power Line Filters			
Manufacturer	Model #	Location in EUT	
None			



Critical EMI Components (Capacitors, ferrites, etc.)				
Description	Manufacturer	Part # or Value	Qty	Component # / Location
None				
	•	•		

EMC Critical Detail -- Describe other EMC Design details used to reduce high frequency noise.

None

(PLEASE INSERT "ELECTRONIC SIGNATURE" BELOW IF POSSIBLE) Authorization Signatures

Customer authorization to perform tests according to this test plan.	Date
Test Plan/CDF Prepared By (please print)	Date
Reviewed by TÜV Product Service Associate	Date



Appendix C

Measurement Protocol

Rev A TÜV AMERICA INC

Taylors Falls MN 55084-1758

File No. WC506388.2, Page C1 of C2

MEASUREMENT PROTOCOL



Environmental conditions in the lab, (TUV)

Temperature: 22 °C Relative Humidity: 22 % Atmospheric pressure: 98.0 kPa

Test Methodology

Emissions testing is performed according to the procedures in ANSI C63.4-2003.

Measurement Uncertainty

The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system has a measurement uncertainty of ± 1.8 dB. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. The test system has a measurement uncertainty of ± 4.8 dB. The equipment comprising the test systems is calibrated on an annual basis.

Justification

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into its characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

Radiated Emissions

The final level, in $dB_{\mu}V/m$, equals the reading from the spectrum analyzer (Level $dB_{\mu}V$), adding the antenna correction factor and cable loss factor (Factor dB) to it, and subtracting the preamp gain (and duty cycle correction factor, if applicable). This result then has the limit subtracted from it to provide the Delta, which gives the tabular data as shown in the data sheets in Attachment A.

Example:

FREQ	LEVEL	CABLE/ANT/PREAMP	FINAL	POL/HGT/AZ	DELTA1
(MHz)	(dBuV)	(dB) (dB/m) (dB)	(dBuV/m)	(m) (deg)	
60.80	42.5Qp +	1.2 + 10.9 - 25.5 =	29.1	V 1.0 0.0	-10.9

Substitution Method

A radiated emission scan was also made, at TUV America's Wild River Lab Large Test Site, with the EUT's antenna replaced with a termination to demonstrate case radiation compliance to the –13 dBm requirement. Radiated emissions from the EUT are measured in the frequency range of 30 to 10000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees. The field strength levels were measured per ANSI C63.4. The EUT is then replaced with a tuned dipole antenna (below 1 GHz) or horn antenna (above 1 GHz). The substitute antenna was placed in the same polarization as the test antenna. A signal generator was used to generate a signal level that matched the highest level measured from the EUT. The signal generator level minus the cable loss from the signal generator to the substitute antenna polarization to the substitute antenna gain equals the spurious power level.

Test Equipment

All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated according to internal procedure.

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TÜV AMERICA INC	19333 Wild Mountain Road	Taylors Falls MN 55084-1758	Tel: 651 638 0297	Fax: 651 638 0298	112205