

**Application for Certification
For an RF amplifier**

**Janizary Holdings Inc.
5380 Sterling Center Drive
Westlake Village, CA 91361**

RF amplifier

FCC ID: RFK-CBAHPNEX

REPORT # RV58130A-004

This report was prepared in accordance with the requirements of the FCC Rules and Regulations Part 2, Subpart J, 2.1031 through 2.1057, and Part 90 and in accordance with Industry Canada Radio Standards Specification RSS-131 for Zone Enhancers and any other applicable sections of the rules as indicated herein.

Prepared By:

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5969 Robinson Avenue
Riverside, Ca 92503-8620**

Industry Canada Lab Code: IC 4738

26 Jan 2006

TEST LAB PERSONNEL

Test Performed by:	Date	Signature
Thomas Elders	06 Jun 2005	

APPROVALS

Management Approval	Date	Signature
Les Payne Sr. Engineering Manager	06 Jun 2005	

APPROVALS

Revision reviewed	Date	Signature
Les Payne Sr. Engineering Manager	26 Apr 2006	

Original report RV58130A-001
Revised report RV58130A-002
Revised report RV58130A-003
Revised report RV58130A-004

Dated 06 Jun 2005
Dated 24 Jan 2006
Dated 26 Jan 2006
Dated 26 Apr 2006

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1.0 ADMINISTRATIVE DATA

1.1 Certifications and Qualifications

I certify that DNB Engineering, Inc conducted the tests performed in order to obtain the technical data presented in this application. Also, based on the results of the enclosed data, I have concluded that the equipment tested meets or exceeds the requirements of the Rules and Regulations governing this application.

1.2 Measurement Repeatability Information

The test data presented in this report has been acquired using the guidelines set forth in FCC Part 2.1031 through 2.1057, and Part 90, also included in this report is compliancy data for Industry Canada RS-131 for Zone Enhancers. The test results presented in this document are valid only for the equipment identified herein under the test conditions described. Repeatability of these test results will only be achieved with identical measurement conditions. These conditions include: The same test distance, EUT Height, Measurement Site Characteristics, and the same EUT System Components. The system must have the same Interconnecting Cables arranged in identical placement to that in the test set-up, with the system and/or EUT functioning in the identical mode of operation (i.e. software and so on) as on the date of the test. Any deviation from the test conditions and the environment on the date of the test may result in measurement repeatability difficulties.

All changes made to the EUT during the course of testing as identified in this test report must be incorporated into the EUT or identical models to ensure compliance with the FCC regulations.



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1.3 Test Methodology

The tests were performed in accordance with FCC Part 2 Subpart J, 2.1031 through 2.1057, 15, and 90, Industry Canada RSS-131 on a sample of the production model.

1.4 Test Equipment

FIGURE 1: TEST EQUIPMENT

Description	Manufacturer	M/N	S/N	Cal Date	Test Used On
Signal Generator	Agilent	E4432B	GB40051213	09/24/05	RF Power Out put, Emissions Lim, Cond Spur, Rad Spur, CE
Signal Generator	Marconi	2024	112231/034	02/02/05	RF Power Out put, Emissions Lim, Cond Spur, Rad Spur, CE
Spectrum Analyzer Display	H/P	85662A	259101-1	01/10/06	RF Power Out put, Emissions Lim, Cond Spur, Rad Spur, CE
Spectrum Analyzer	H/P	8566B	259101-2	01/10/06	RF Power Out put, Emissions Lim, Cond Spur, Rad Spur, CE
Spec Analyzer Display	H/P	85662A	2318A05282	8/14/05	RE
Spectrum Analyzer	H/P	85680B	2049A01403	6/2/05	RE
Quasi-Peak Adapter	H/P	85650A	2043A00184	6/2/05	RE
Bicon Antenna	H/P	85650A	2043A00184	6/2/05	RE
Log Antenna	AH Systems	SAS-200/540	524	12/26/05	RE
DRG Antenna	EMCO	3146	1284	1/2/06	RE
Spectrum Analyzer	Agilent	E4407B	MY45103462	9/9/05	RF Power/Bandwidth
Signal Generator	Rhode & Schwarz	SMU 200A	100094	6/9/05	RF Power/Bandwidth

1.5 DEVIATIONS

Deviations/Modifications to the EUT

None.

Deviations/Modifications from test standard.

None

1.6 TEST DESCRIPTION

1.6.1 RF Power Output
For RF amplifier.

1.6.2 Emissions Limitation and Occupied Bandwidth
Occupied Bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are equal to 0.5 percent of the total mean power radiated by a given emission. (also known as the 99% bandwidth)

1.6.3 Conducted Spurious Emissions at Antenna Terminals
Conducted Spurious Emissions are emissions at the antenna terminals on a frequency or frequencies which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communication desired. The reduction in the level of these spurious emissions will not affect the quality of the information being transmitted.

1.6.4 Radiated Field Strength of Spurious Emissions
Emissions from the equipment when connected into a non-radiating load on a frequency or frequencies which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communication desired. The reduction in the level of these spurious emissions will not affect the quality of the information being transmitted.

1.6.5 Conducted Emissions
Emissions which are conducted onto the AC power mains.

1.6.6 Radiated Emissions
Emissions which emanate from the EUT.

2.1033 (C) (1) Application for Certification

Name of Applicant:	Janizary Holdings Inc. 5380 Sterling Center Drive Westlake Village, CA 91361		
FRN:	0009486226		
Applicant is:	X	Manufacturer Vendor Licensee Prospective Licensee Other	
Name of Manufacturer	Janizary Holdings Inc.		
Description:	Cellular RF amplifier		
Part Number:	CBA-HPNEX		
Anticipated Production Quantity:	Multiple Units		
Applicable FCC Parts:	90		
Applicable IC Standard:	RSS-131		
FCC ID No:	RFK-CBAHPNEX		
IC/FCC Emissions Designator:	GSM	300KGXW	
	TDMA	30K0DXW	
Frequency Range:	Uplink	806.2-823.8	MHz
	Downlink	851.2-868.8	MHz
Rated Conducted Power:	.439W	(26.42dBm)	

2.1033 (C) (2) FCC Identifier

FCC ID: RFK-CBAHPNEX

2.1033 (C) (4) Type of Emission

806.02 – 823.98 MHz	DXW
851.02 – 868.98 MHz	DXW
806.20 – 823.80 MHz	GXW
851.20 – 868.80 MHz	GXW

2.1033 (C) (5) Frequency Range

Uplink	806.2 – 823.8 MHz	Downlink	851.2 – 868.8 MHz
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2.1033 (C) (6) Operating Power

Uplink	806.2 – 823.8 MHz	.439W (+ 26.42dBm)
Downlink	851.2 – 868.8 MHz	.377W (+ 25.76dBm)

2.1033 (C) (7) Maximum Power Allowed in Applicable Part(s) of the Rules

<u>RULES PART</u>	<u>MAXIMUM ERP (WATTS)</u>
Part 90	5

2.1033 (C) (8) Input Power Characteristics	2.5 nW Maximum
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2.1033 (C) (9) Tune Up Procedure	Customer will provide.
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2.1033 (C) (10) Schematic Diagram and Circuit Description

Customer will provide.

2.1033 (C) (11) Equipment Identification Plate

Customer will provide.

2.1033 (C) (12) Equipment Photographs - Internal

Customer will provide.

2.1033 (C) (12) Equipment Photographs - External

Customer will provide.

2.1033 (C) (13) Digital Modulation Techniques

TDMA /GSM

2.1033 (c) (14) Test Data

See 2.1046-2.1053 and Radiated Emissions

FIGURE 2: TEST RESULT SUMMARY

NAME OF TEST	FCC PARA. NO.	Industry Canada No. (RSS-131)	RESULTS
RF Power Output	2.1046	RSS-131 Cl 4.3	Complies
Emissions Limitations: TDMA	2.1049	RSS-131 Cl 4.2	Complies
Emissions Limitations: GSM	2.1049	RSS-131 Cl 4.2	Complies
Occupied Bandwidth: TDMA/GSM	2.1049	RSS-131 Cl 4.2	Complies
Conducted Spurious Emissions at Antenna Terminals	2.1051	RSS-131 Cl 4.4	Complies
Radiated Field Strength of Spurious Emissions	2.1053	RSS-131 Cl 4.4	Complies
Conducted Emissions	15 Class B	CIPSR 22 Class B	Complies
Radiated Emissions	15 Class B	CIPSR 22 Class B	Complies
Intermodulation		RSS-131 Cl 4.3 RSS-131 Cl 4.4	Complies

2.1033 (c) (14) Photograph of Test Set Up



2.1033 (c) (14)

FIGURE 3: TEST SET UP BLOCK DIAGRAM FOR RF POWER OUTPUT, EMISSIONS LIMITATIONS GSM/TDMA, OCCUPIED BANDWIDTH GSM/TDMA, CONDUCTED SPURIOUS EMISSIONS AT ANTENNA TERMINALS.

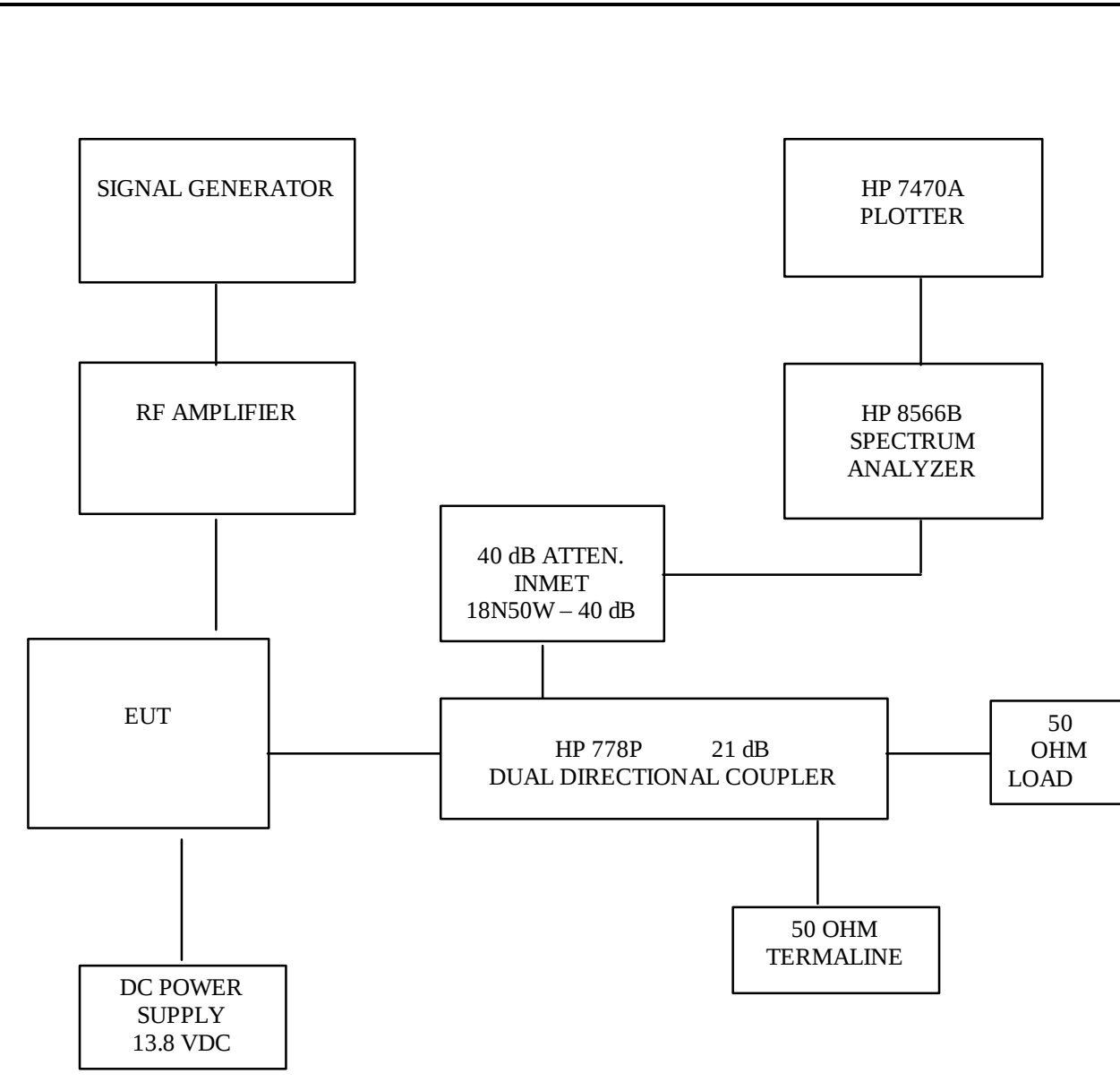
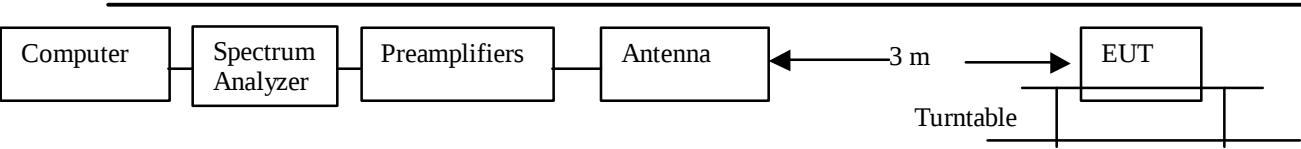


FIGURE 4: TEST SET UP BLOCK DIAGRAM FOR RADIATED EMISSIONS



2.1046**Measurement of RF Power Output (IC RSS-131 Cl 4.3)**

Definition: For RF amplifier

Test Method: See FIGURE 1.

Output Power is measured across a precision 50 ohm load with a Spectrum Analyzer. For the power measurement, typical signal is used. (GSM / TDMA)

Test Results:

Uplink

<u>Signal Type</u>	<u>Freq (MHz)</u>	<u>Power (dBm)</u>	<u>Power (W)</u>
GSM	806.2	25.94	.393
GSM	815.0	25.46	.352
GSM	823.8	26.42	.439
TDMA	806.02	25.61	.364
TDMA	815.00	25.63	.366
TDMA	823.98	25.48	.353

Downlink

<u>Signal Type</u>	<u>Freq (MHz)</u>	<u>Power (dBm)</u>	<u>Power (W)</u>
GSM	851.2	21.24	.133
GSM	860.0	25.56	.360
GSM	868.8	20.02	.101
TDMA	851.02	22.59	.182
TDMA	860.00	25.76	.377
TDMA	868.98	20.36	.109

FIGURE 5: OUTPUT POWER PLOTS, UPLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date:	26 Jan 2006
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier		
	GSM - Uplink 806.2 MHz		

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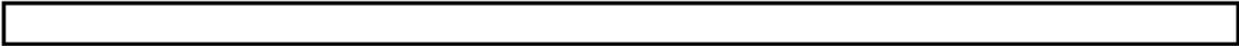
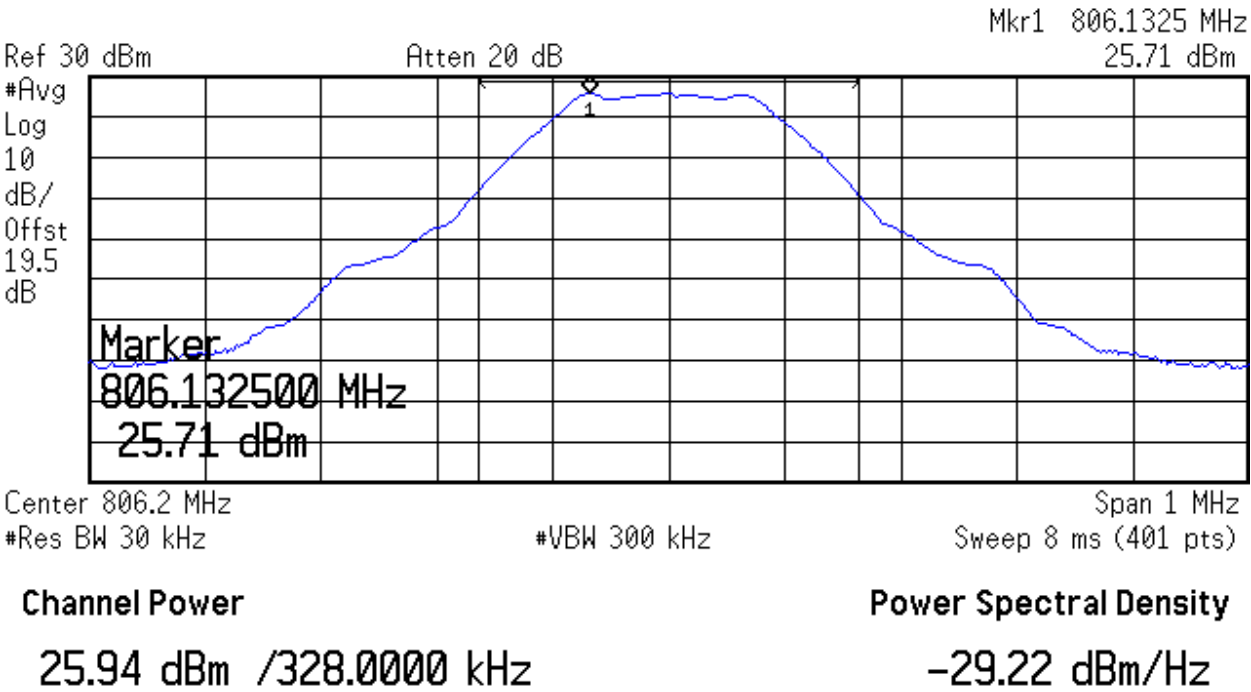


FIGURE 5: OUTPUT POWER PLOTS, UPLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date:	26 Jan 2006
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier		
GSM - Uplink 815 MHz			

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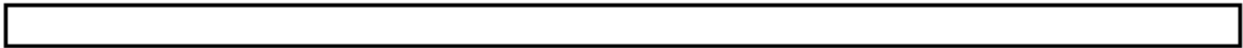
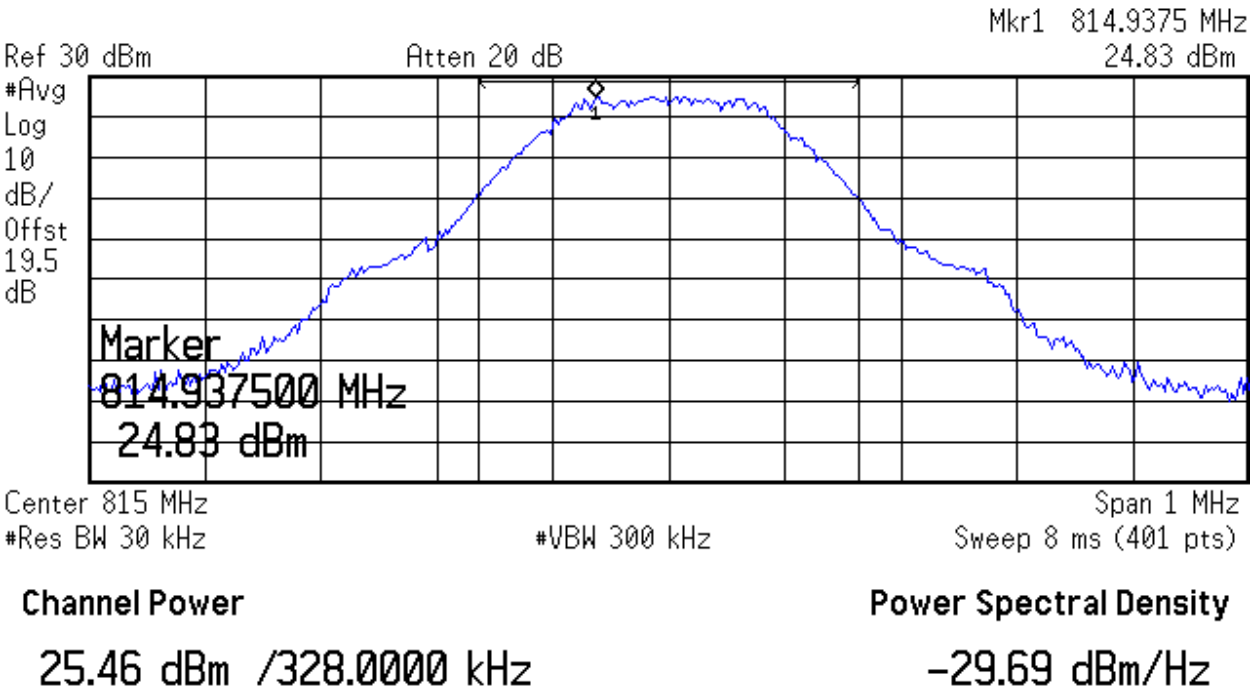


FIGURE 5: OUTPUT POWER PLOTS, UPLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date:	26 Jan 2006
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier		
	GSM - Uplink 823.8 MHz		

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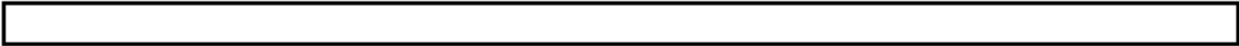
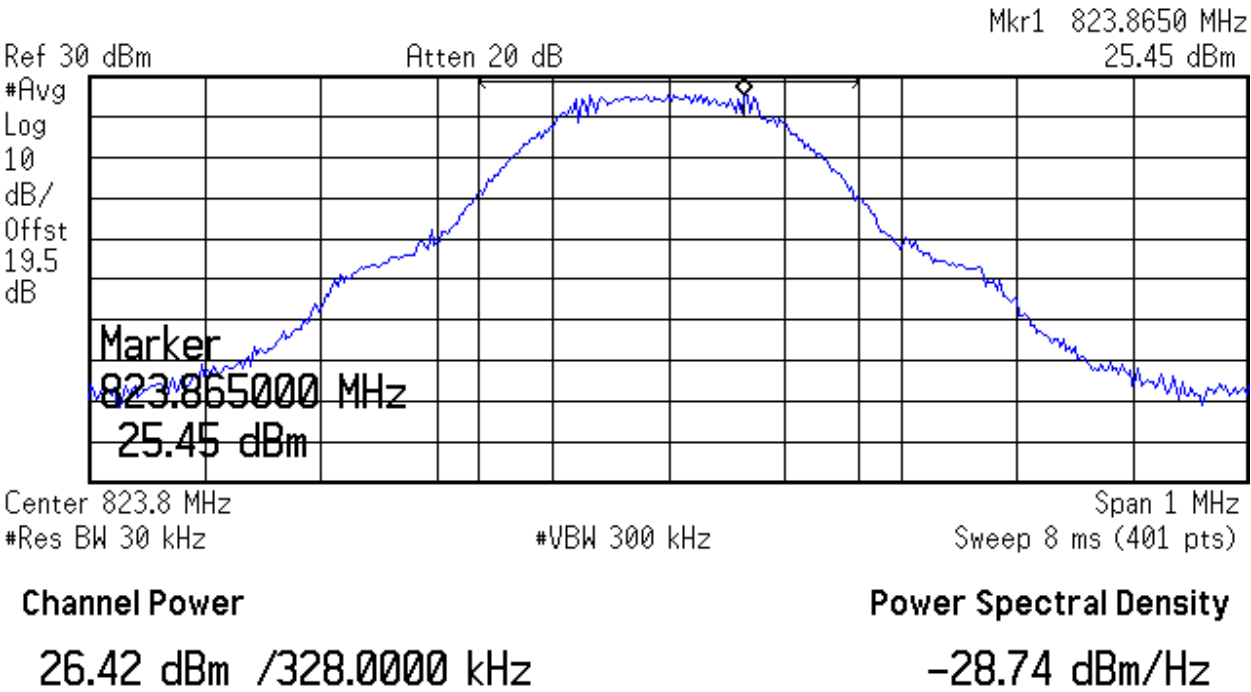


FIGURE 5: OUTPUT POWER PLOTS, UPLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date: 26 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	TDMA - Uplink 806.02 MHz		

✱ Agilent 08:47:38 Jan 26, 2006

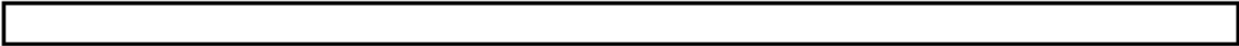
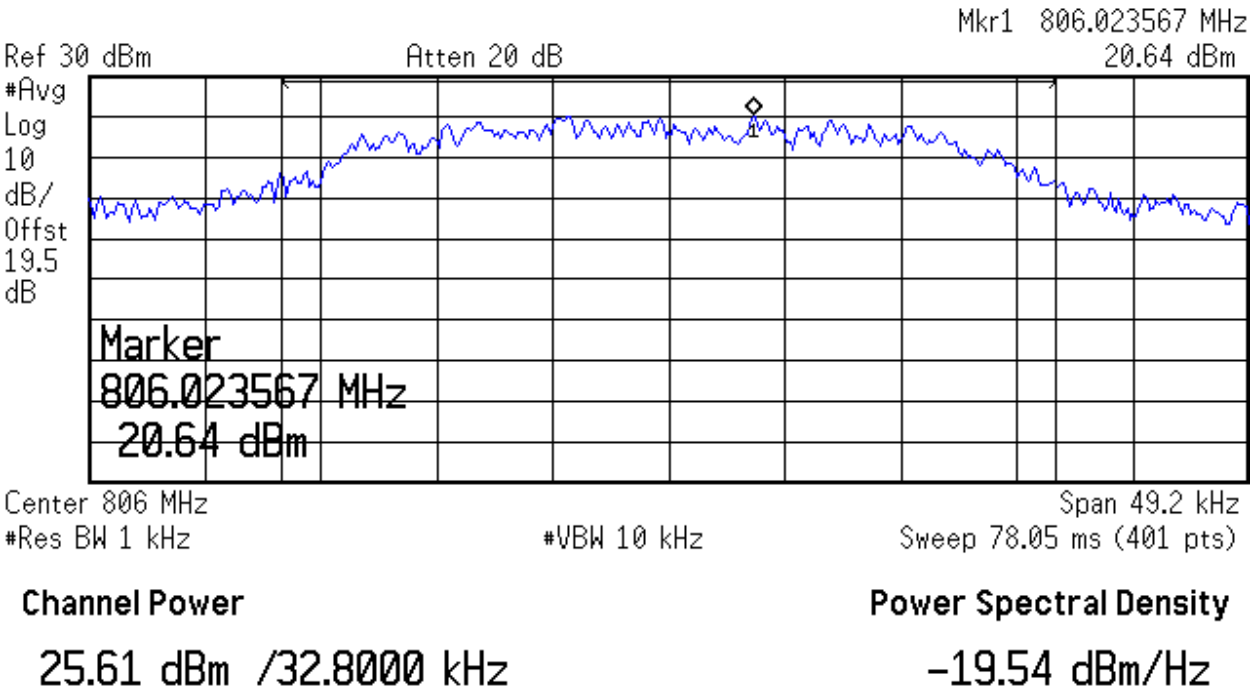


FIGURE 5: OUTPUT POWER PLOTS, UPLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date: 26 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	TDMA - Uplink 815 MHz		

✱ Agilent 08:48:24 Jan 26, 2006

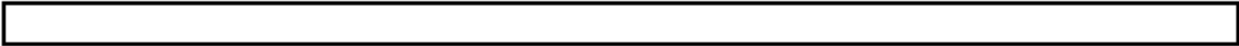
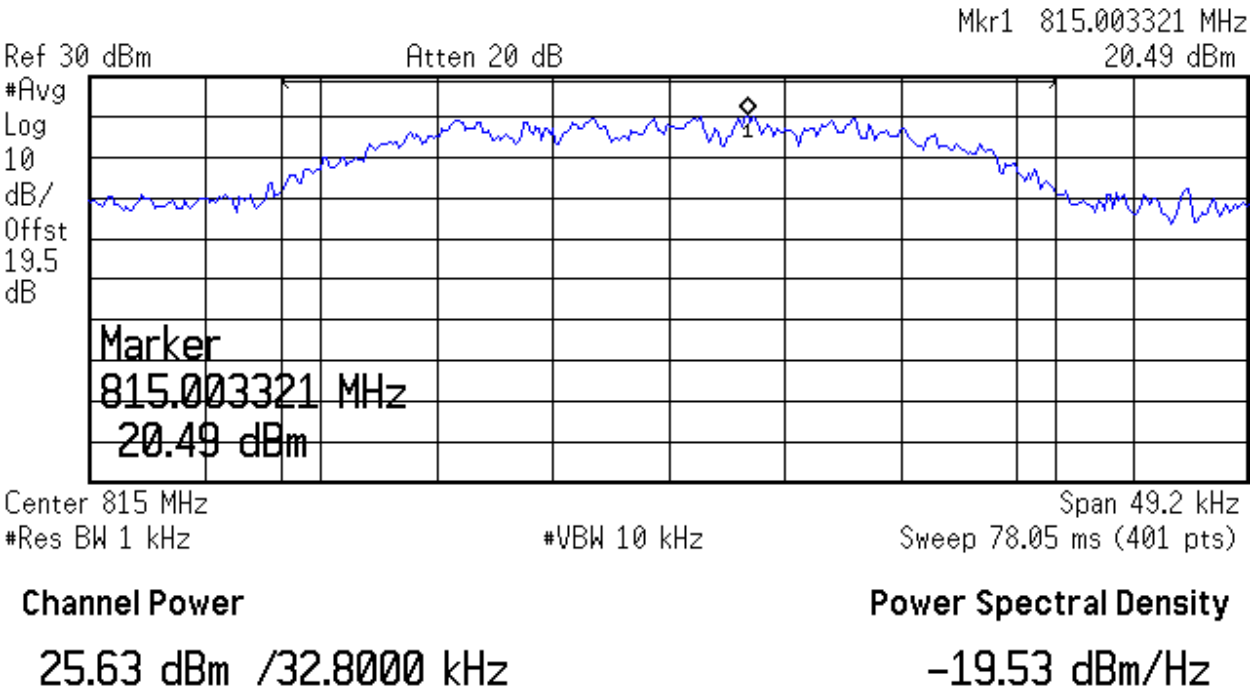


FIGURE 5: OUTPUT POWER PLOTS, UPLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date: 26 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	TDMA - Uplink 823.98 MHz		

✱ Agilent 08:49:20 Jan 26, 2006

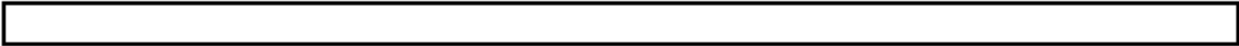
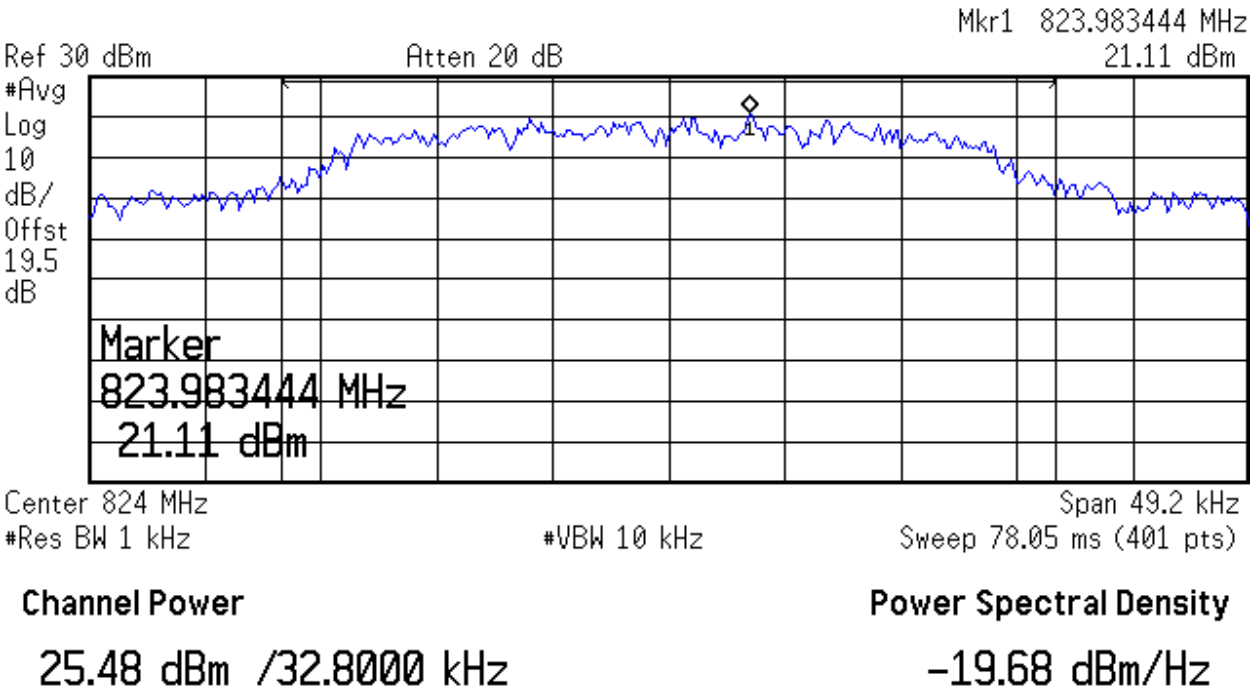


FIGURE 5: OUTPUT POWER PLOTS, DOWNLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Output Power	
	DNR Job Number:	58130	Date:	24 Jan 2006
	Customer:	Janizary Holdings Inc		
	Model Number:	CBA-HPNEX	Serial Number:	
	Description:	RF amplifier		
	GSM - Downlink 851.2 MHz			

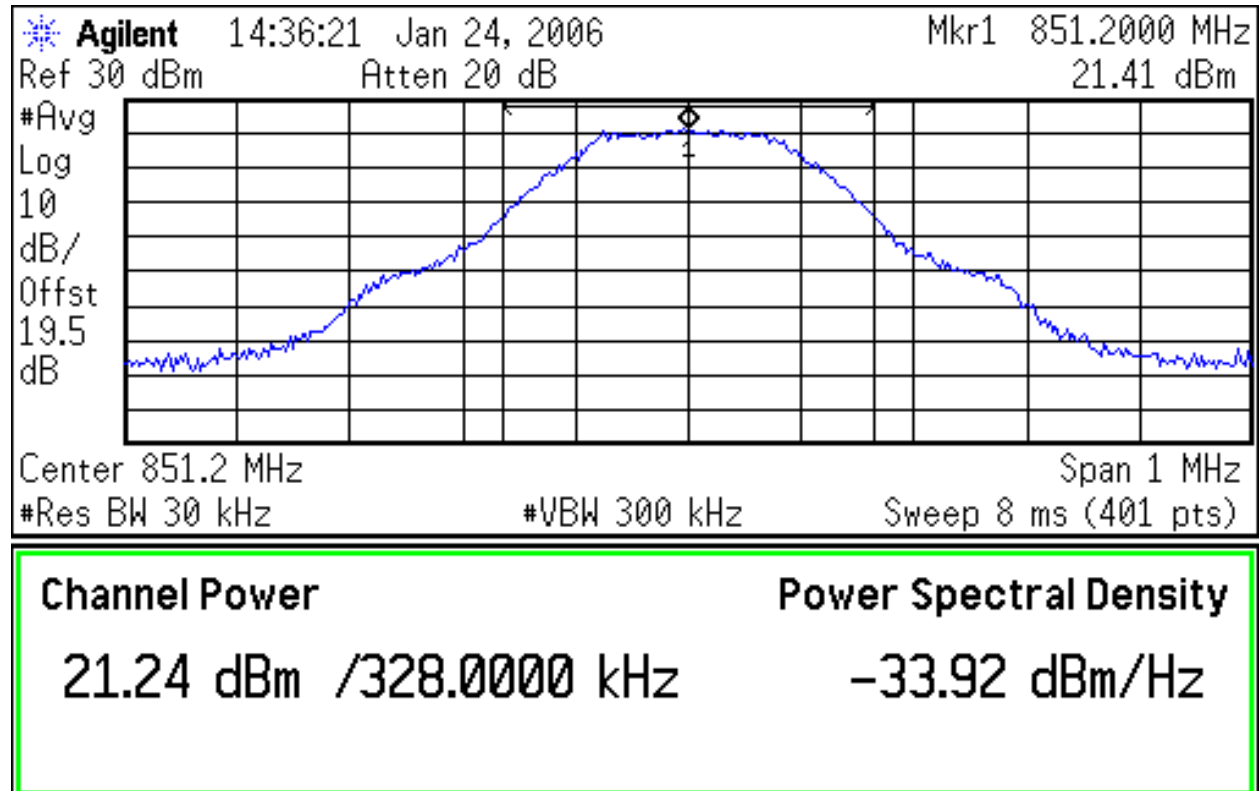


FIGURE 5: OUTPUT POWER PLOTS, DOWNLINK.

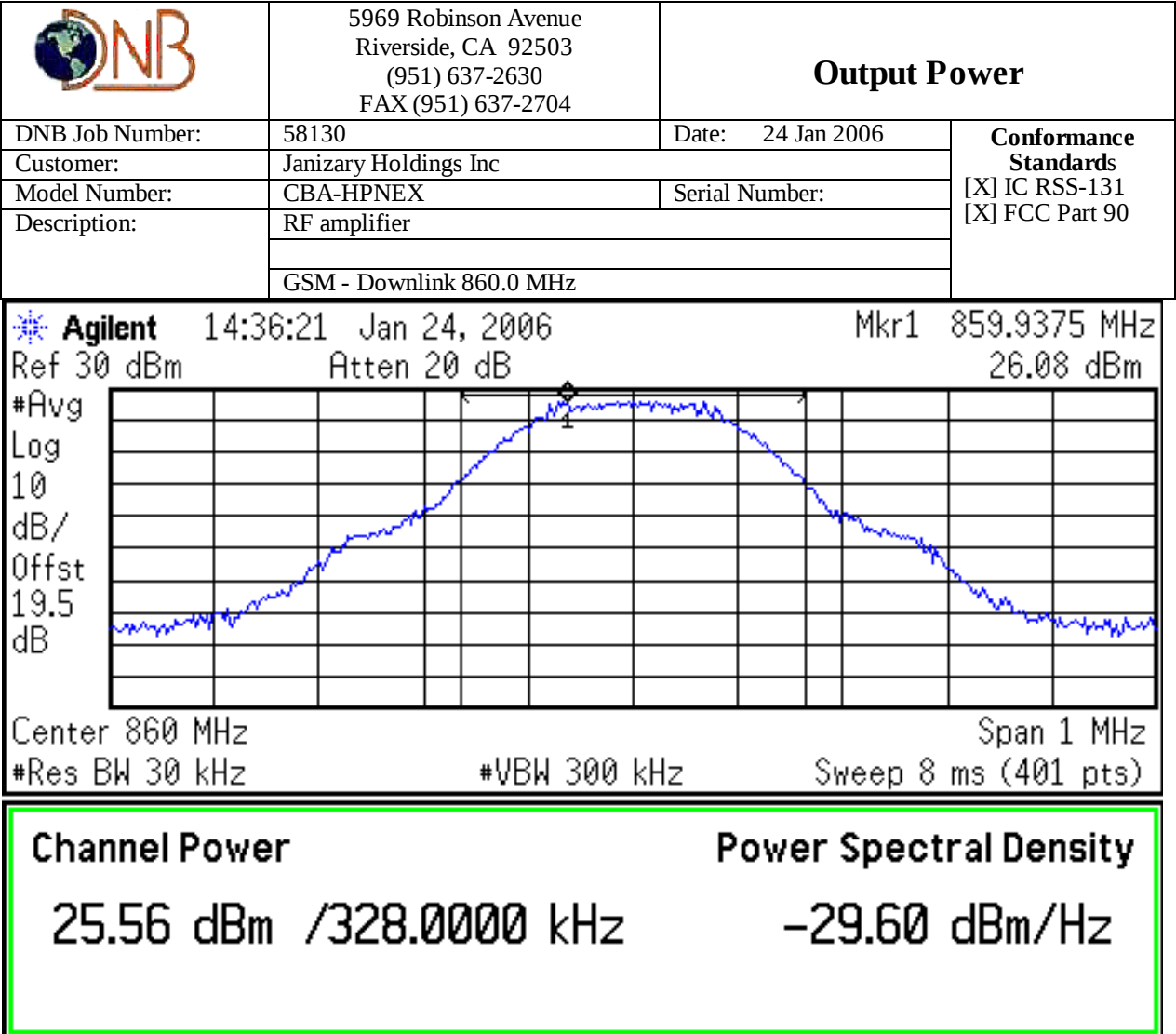


FIGURE 5: OUTPUT POWER PLOTS, DOWNLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date:	24 Jan 2006
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	TDMA - Downlink 851.02 MHz		

✱ Agilent 09:00:33 Jan 24, 2006

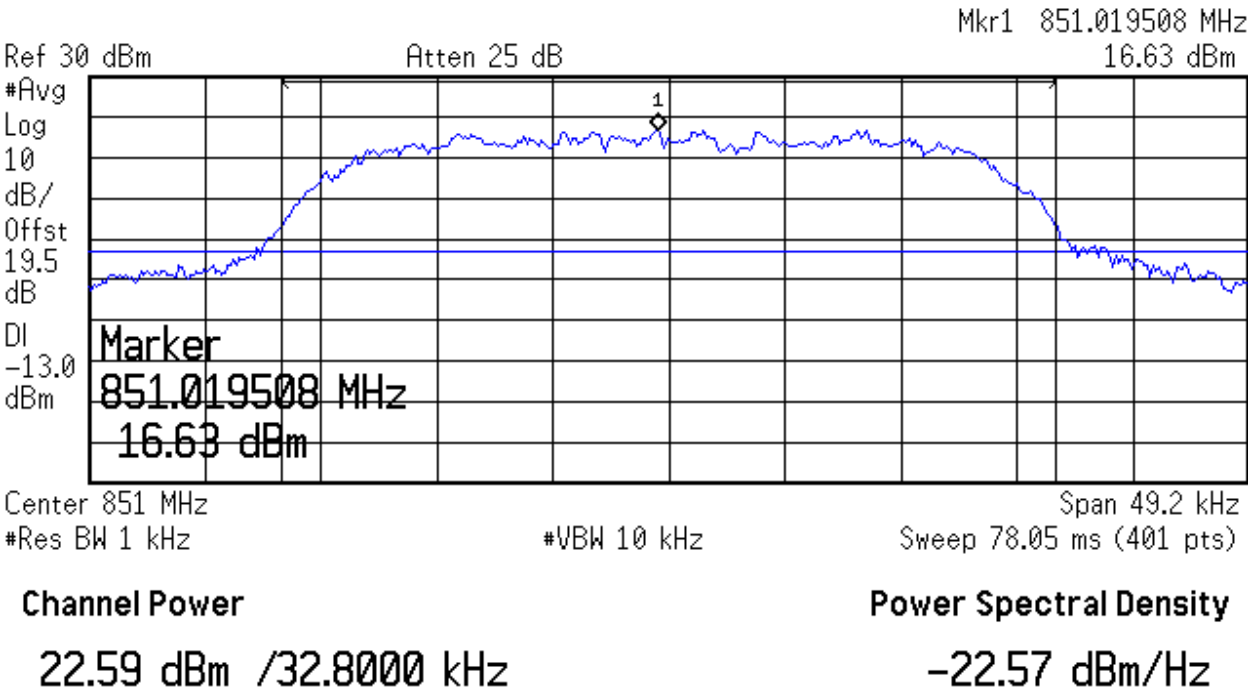


FIGURE 5: OUTPUT POWER PLOTS, DOWNLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	TDMA - Downlink 860.0 MHz		

Agilent 09:02:07 Jan 24, 2006

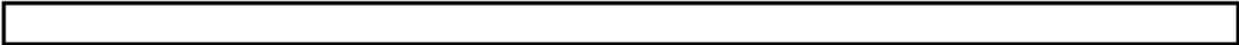
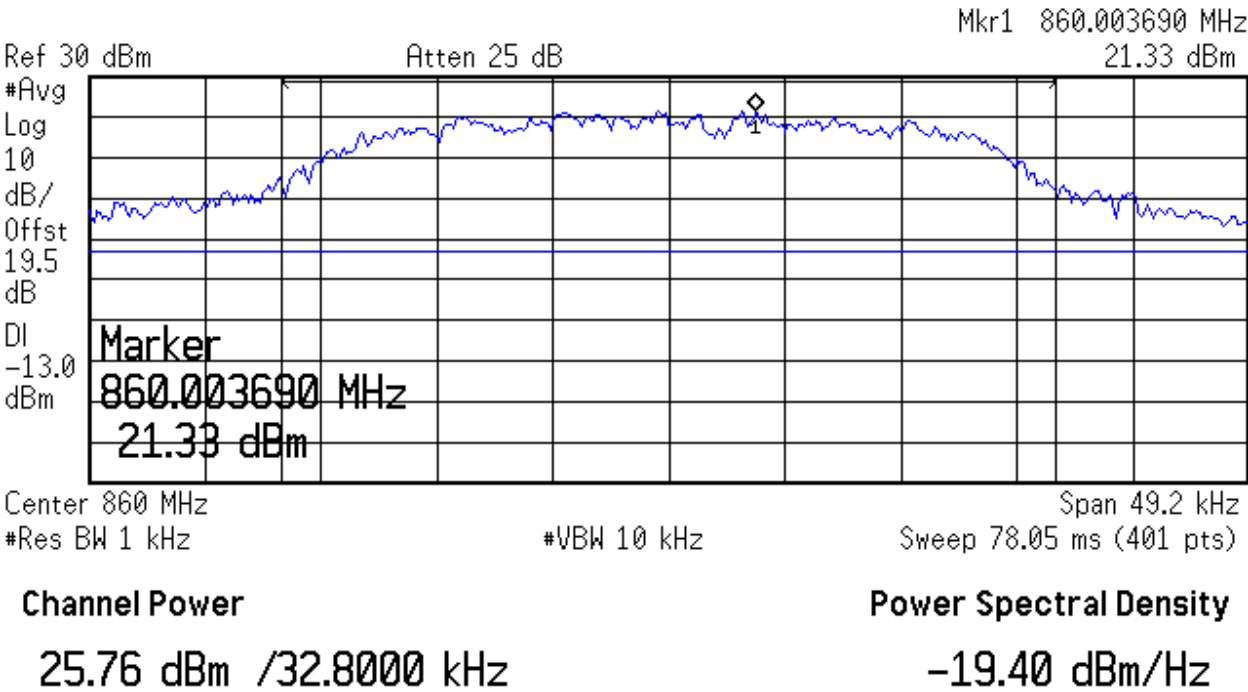
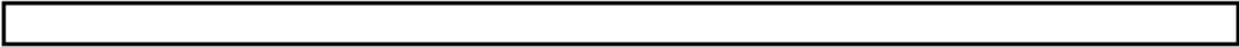
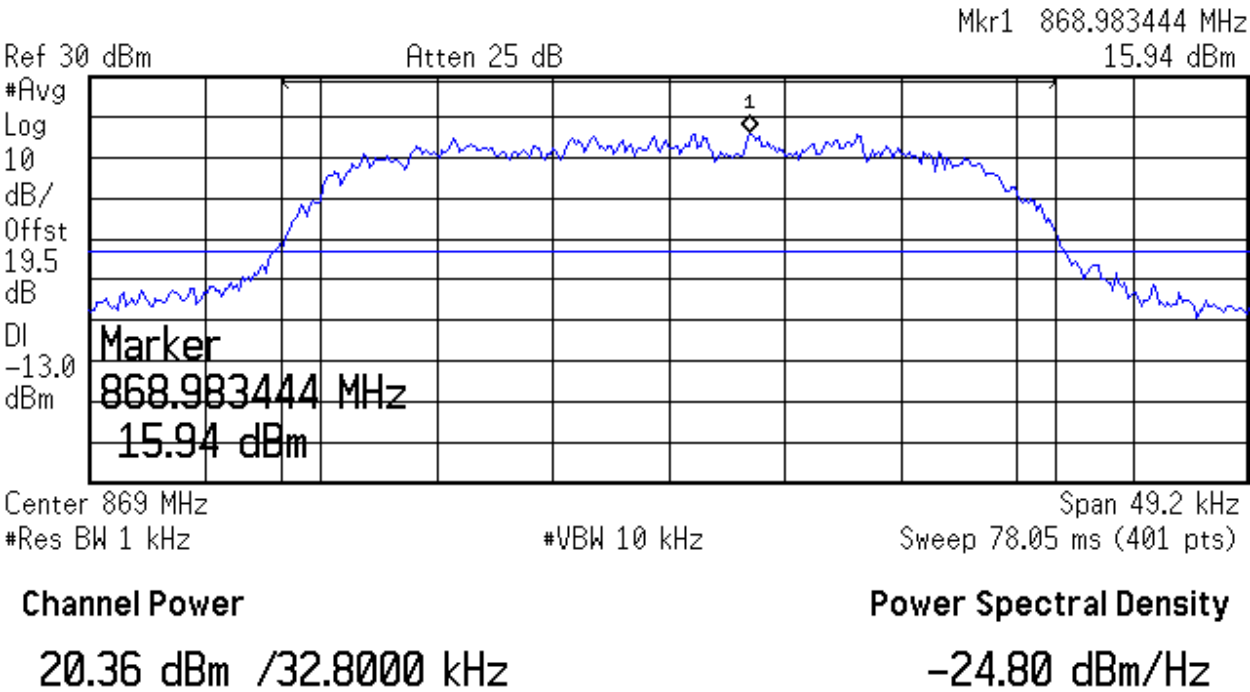


FIGURE 5: OUTPUT POWER PLOTS, DOWNLINK.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Output Power	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	TDMA - Downlink 868.98 MHz		

✱ Agilent 09:03:20 Jan 24, 2006



2.1049 Measurement of Occupied Bandwidth (IC RSS-131 Clause 4.2)

Definition:

Occupied Bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are equal to 0.5 percent of the total mean power radiated by a given emission.

Test Method: Connect the Equipment per FIGURE 1.

Measurements were made while the driving source generated the following:

GSM Signal
TDMA Signal

Test Results: See Plots

The center frequency of the signal did not shift with modulation. The Spectrum Bandwidth was well within the limits specified in the FCC Regulations.

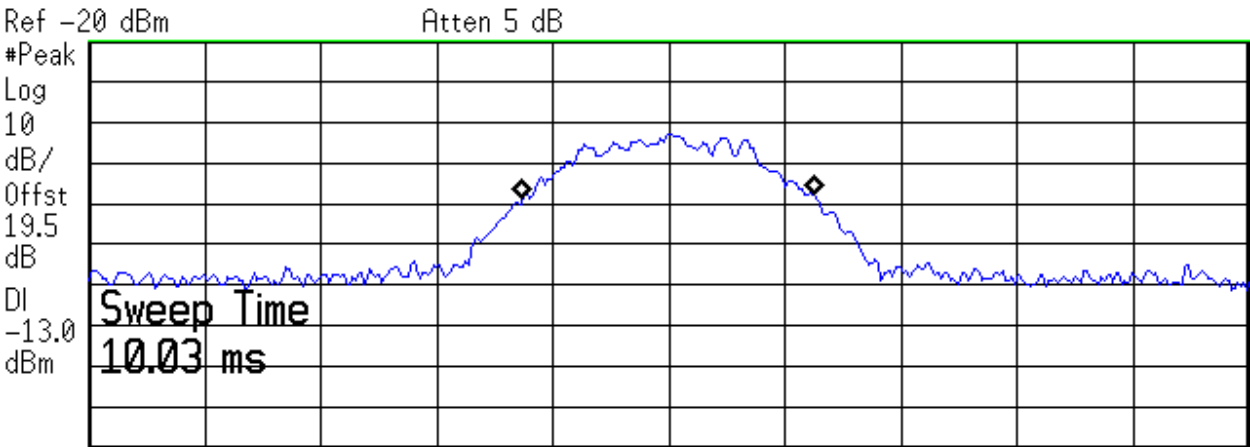
Inter-modulation test are required for both uplink and downlink.

Modulation characteristic plots are shown in this section.

FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Lo Channel – 806.2 MHz		
	Input		

✱ Agilent 10:23:56 Jan 24, 2006



Center 806.2 MHz Span 1 MHz
#Res BW 10 kHz #VBW 100 kHz Sweep 10.03 ms (401 pts)

Occupied Bandwidth
251.9025 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -550.625 Hz
x dB Bandwidth 328.331 kHz

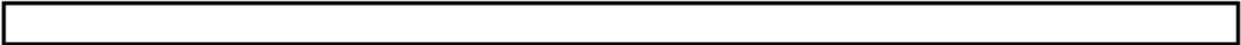
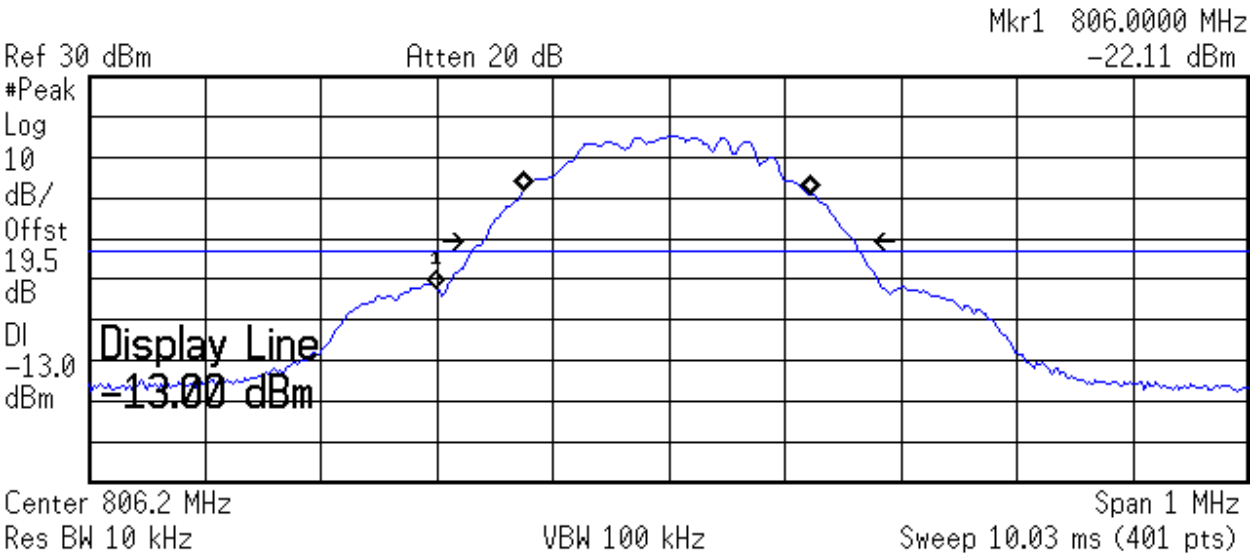


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 23 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Lo Channel – 806.2 MHz		
	Output		

Agilent 14:32:03 Jan 24, 2006



Occupied Bandwidth
247.2360 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -1.469 kHz
x dB Bandwidth 320.081 kHz

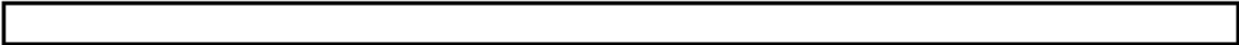
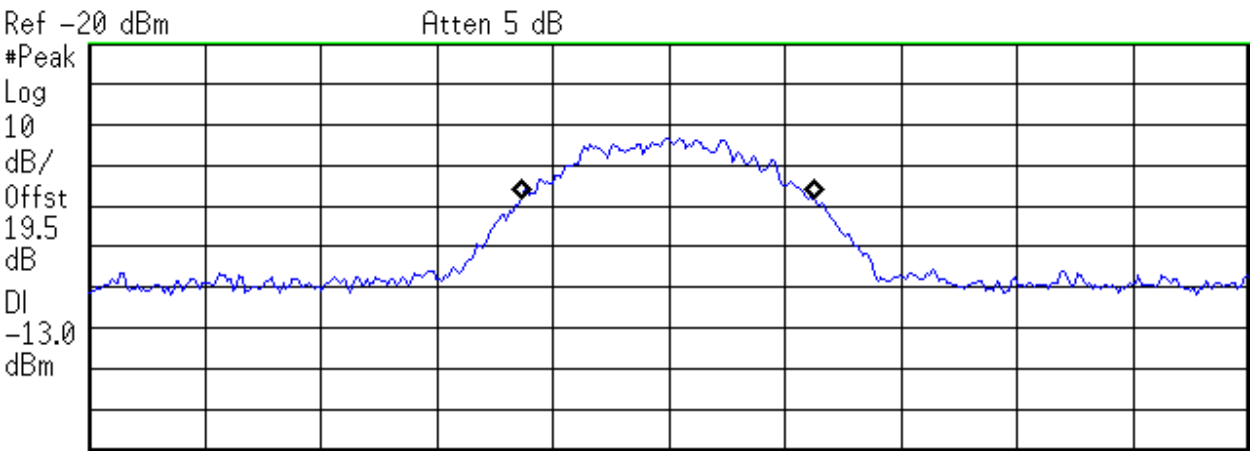


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Mid Channel – 815.0 MHz		
	Input		

✱ Agilent 10:24:36 Jan 24, 2006



Center 815 MHz Span 1 MHz
#Res BW 10 kHz #VBW 100 kHz Sweep 10.03 ms (401 pts)

Occupied Bandwidth
253.0565 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -838.749 Hz
x dB Bandwidth 317.469 kHz



FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 23 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Mid Channel – 815.0 MHz		
	Output		

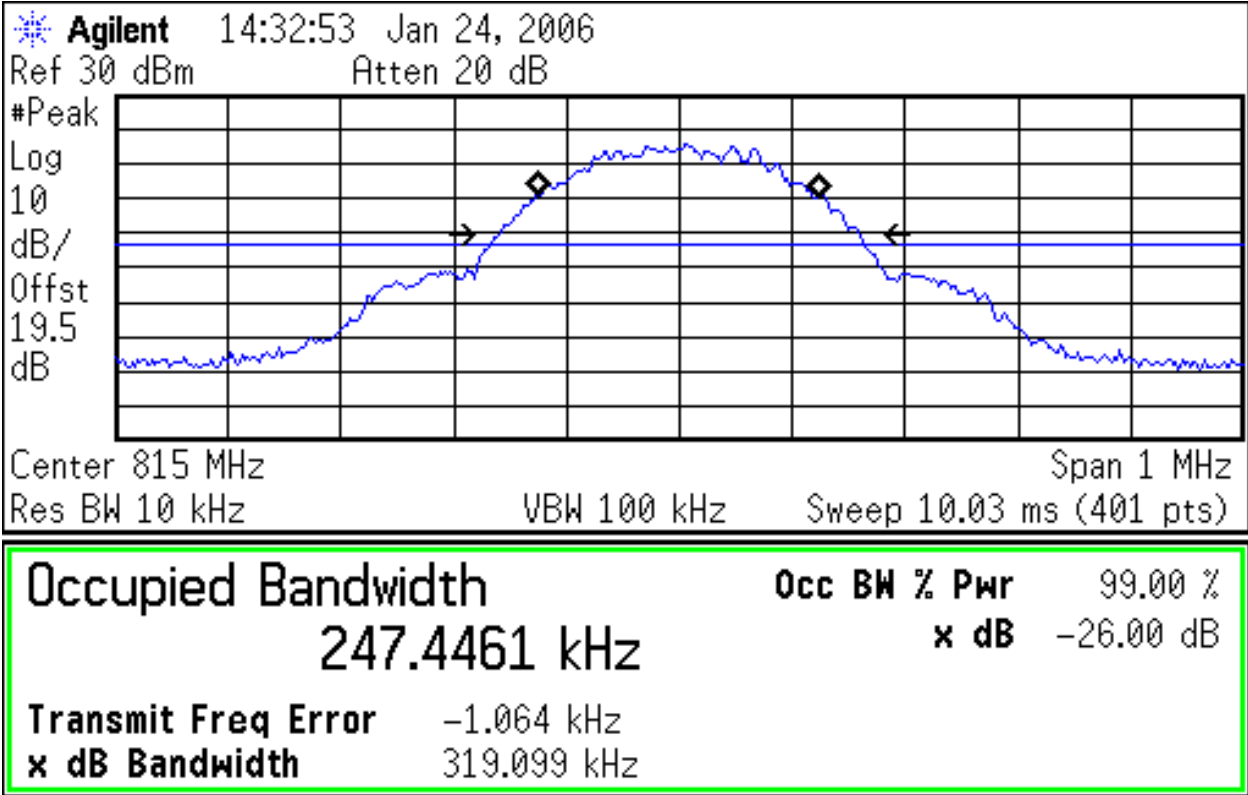
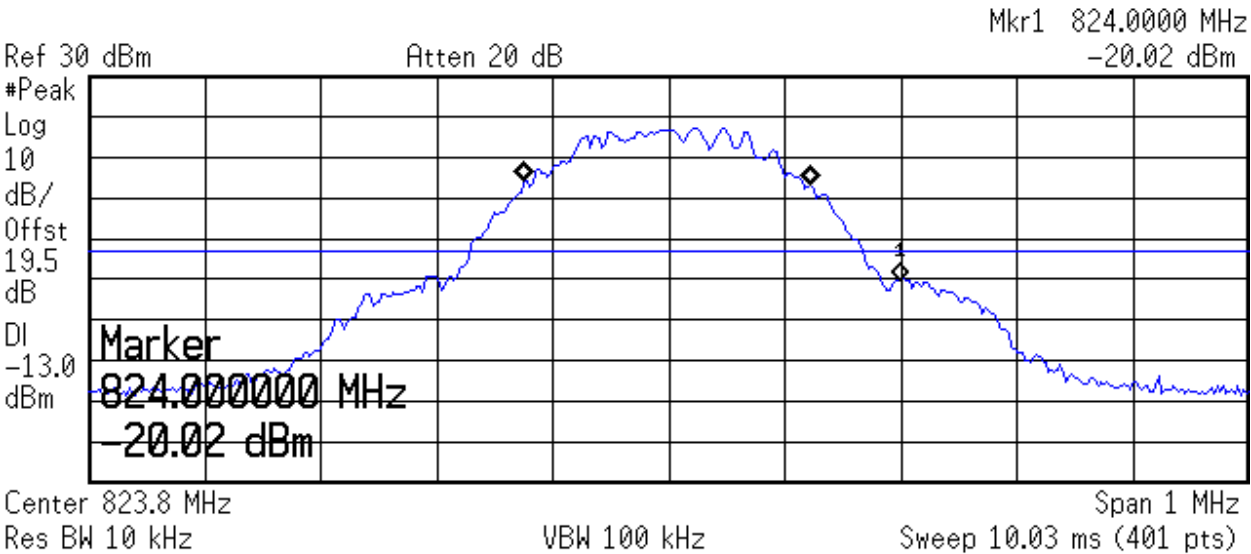


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 23 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier Uplink – GSM – Hi Channel – 823.8 MHz Output		

Agilent 14:34:16 Jan 24, 2006



Occupied Bandwidth
245.4871 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -1.064 kHz
x dB Bandwidth 315.668 kHz

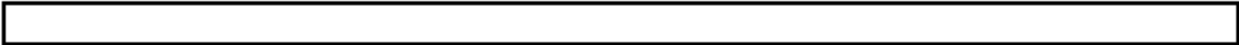
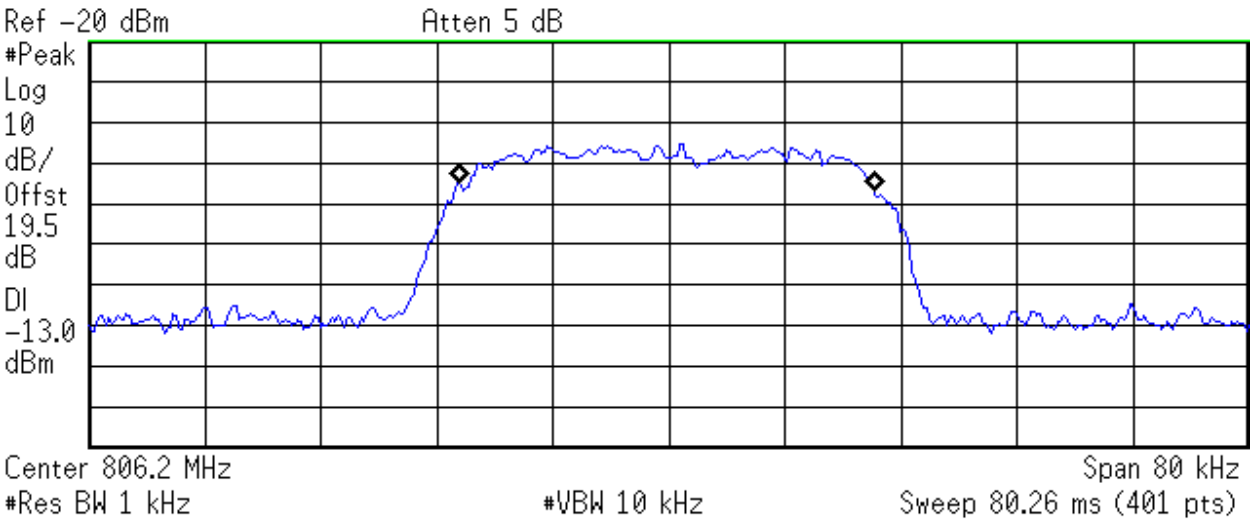


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth		
DNB Job Number:	58130	Date:	24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc			
Model Number:	CBA-HPNEX	Serial Number:		
Description:	RF amplifier			
	Uplink – TDMA – Lo Channel – 806.02 MHz			
	Input			

✱ Agilent 10:28:19 Jan 24, 2006



Occupied Bandwidth
28.5185 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -133.445 Hz
x dB Bandwidth 33.326 kHz

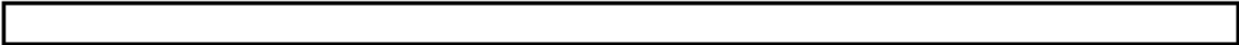
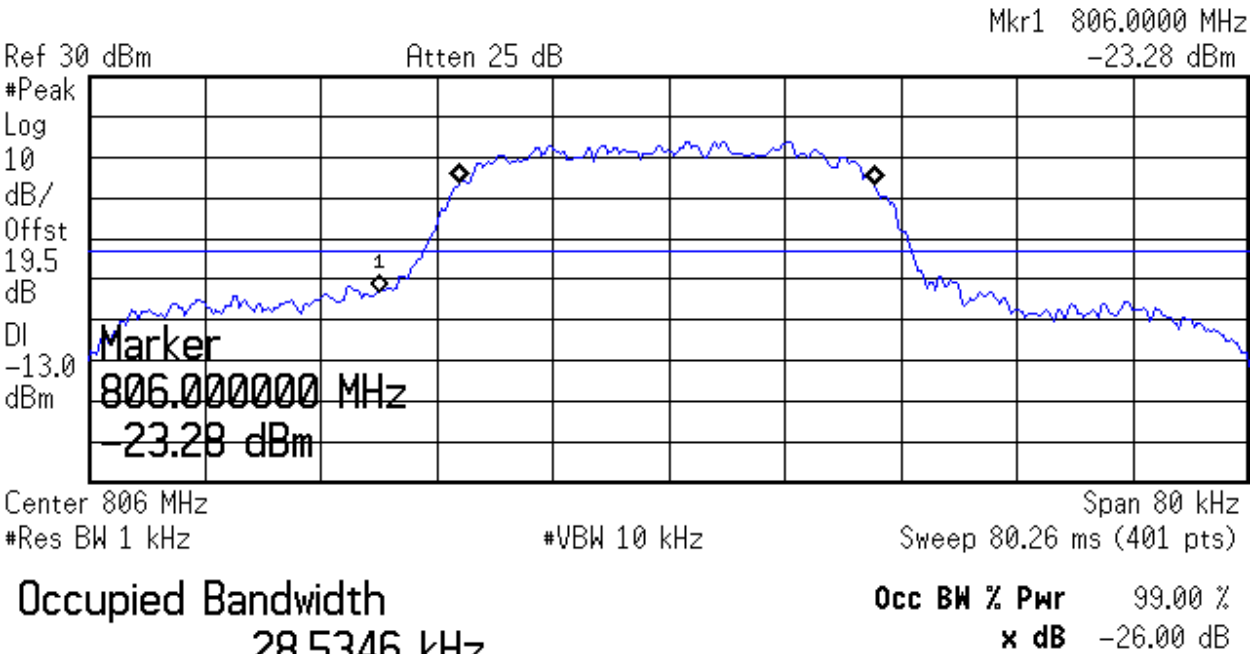


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth		
DNB Job Number:	58130	Date:	23 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc			
Model Number:	CBA-HPNEX	Serial Number:		
Description:	RF amplifier			
	Uplink – TDMA – Lo Channel – 806.02 MHz			
	Output			

Agilent 14:42:56 Jan 23, 2006



Transmit Freq Error -137.930 Hz
x dB Bandwidth 33.458 kHz

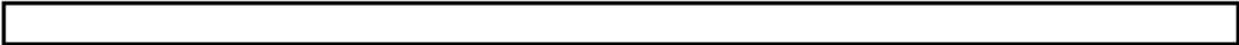


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Mid Channel – 815.0 MHz		
	Input		

✱ Agilent 10:28:58 Jan 24, 2006

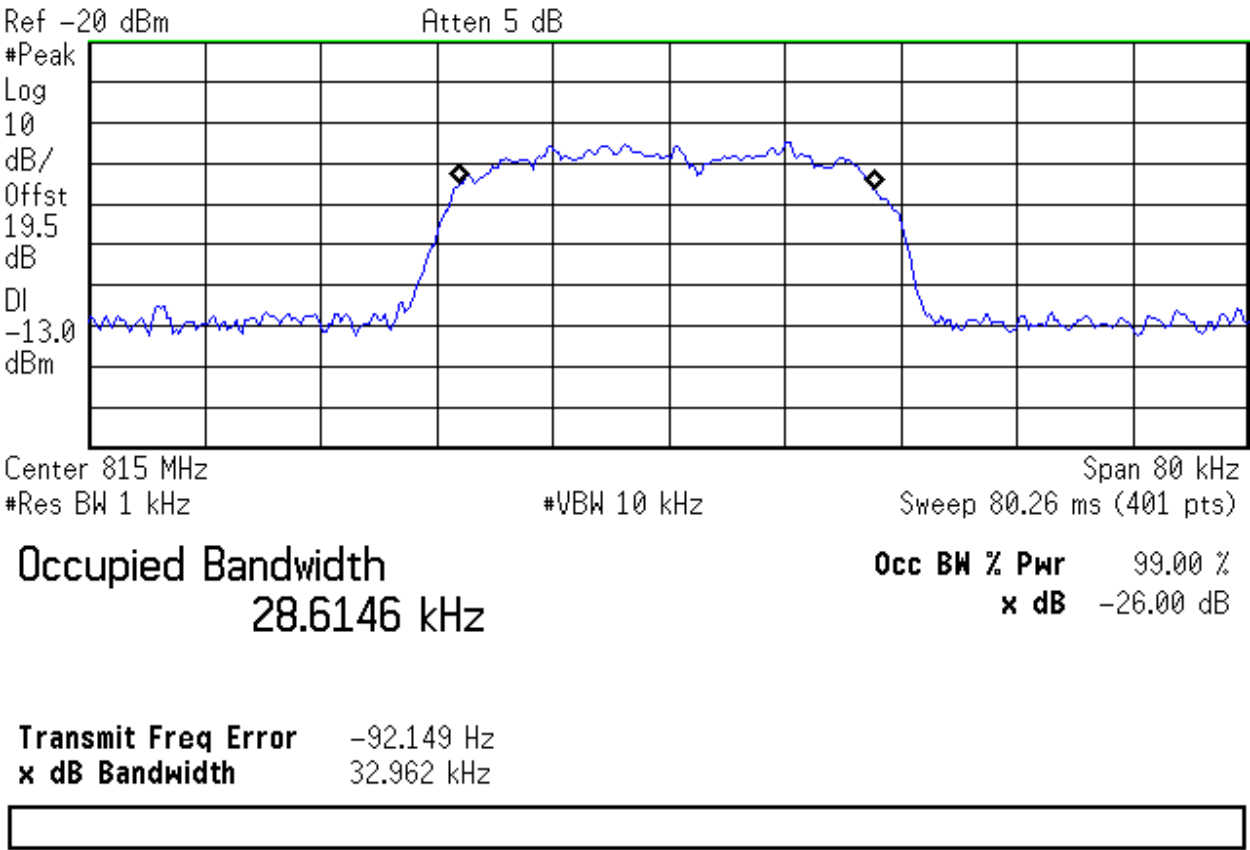
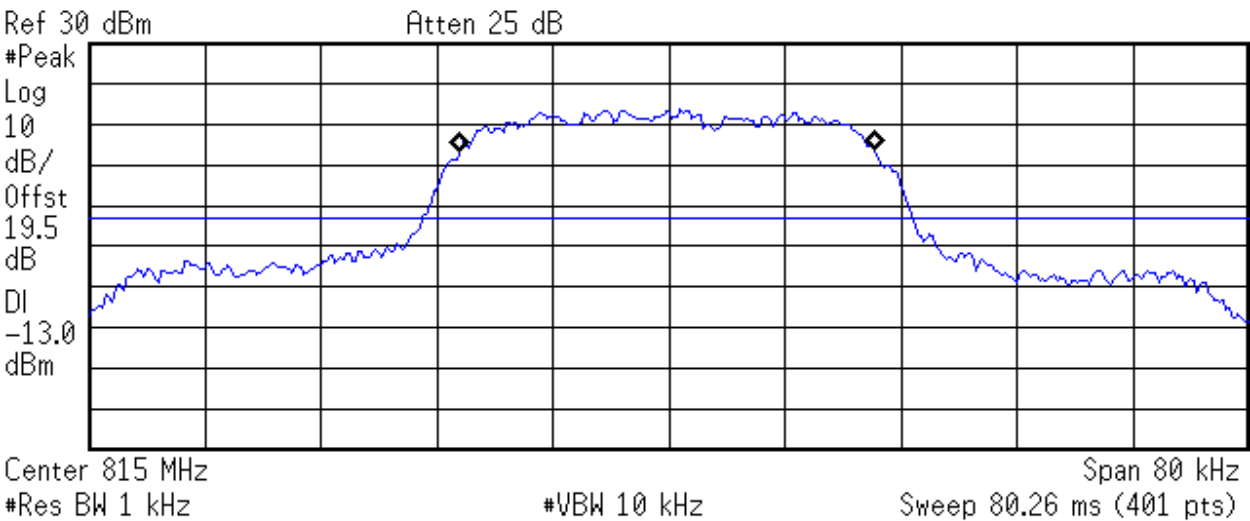


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 23 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Mid Channel – 815.0 MHz		
	Output		

✱ Agilent 14:44:28 Jan 23, 2006



Occupied Bandwidth
28.6099 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -92.049 Hz
x dB Bandwidth 33.660 kHz

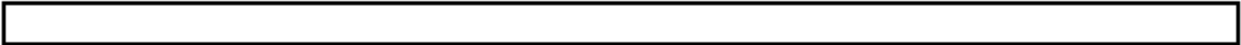
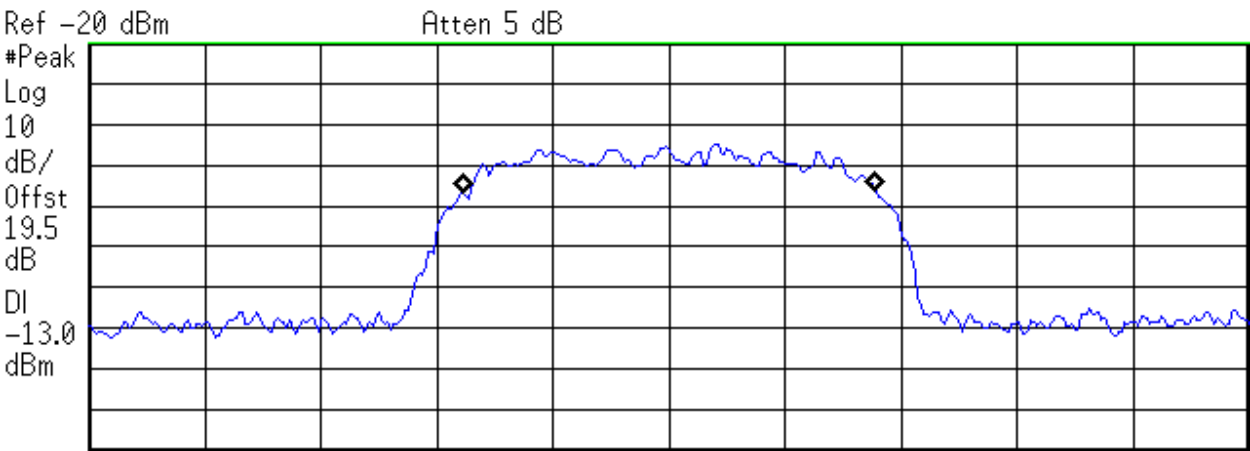


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Hi Channel – 823.98 MHz		
	Input		

✱ Agilent 10:31:44 Jan 24, 2006



Center 824 MHz Span 80 kHz
#Res BW 1 kHz #VBW 10 kHz Sweep 80.26 ms (401 pts)

Occupied Bandwidth
28.3832 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

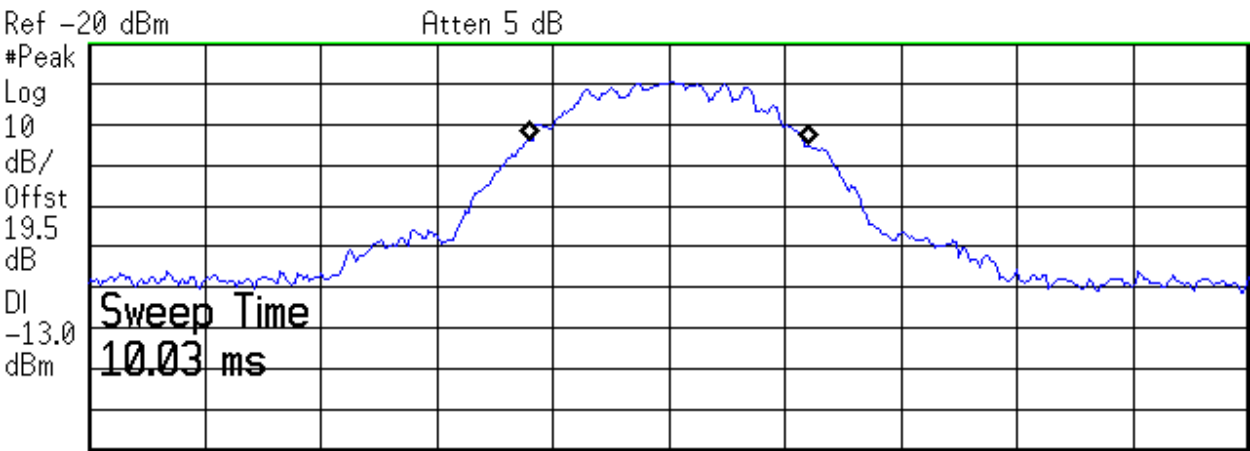
Transmit Freq Error 57.173 Hz
x dB Bandwidth 32.867 kHz



FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date:	24 Jan 2006
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier		
	Downlink – GSM – Lo Channel – 851.2 MHz		
	Input		

✱ Agilent 09:57:10 Jan 24, 2006



Center 851.2 MHz Span 1 MHz
#Res BW 10 kHz #VBW 100 kHz Sweep 10.03 ms (401 pts)

Occupied Bandwidth
241.0330 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

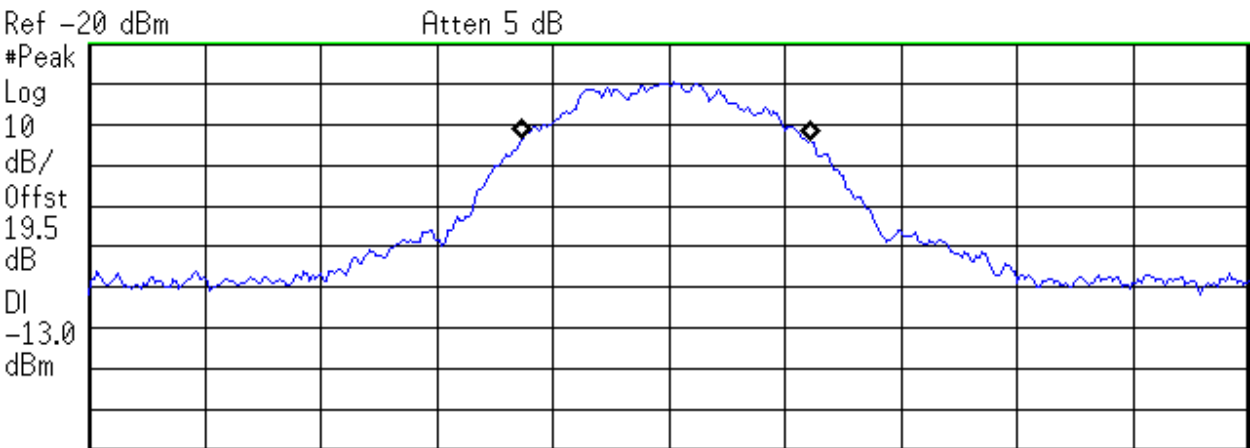
Transmit Freq Error -448.700 Hz
x dB Bandwidth 319.650 kHz



FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Mid Channel – 860.0 MHz		
	Input		

✱ Agilent 09:57:58 Jan 24, 2006



Center 860 MHz Span 1 MHz
#Res BW 10 kHz #VBW 100 kHz Sweep 10.03 ms (401 pts)

Occupied Bandwidth
247.8755 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -2.471 kHz
x dB Bandwidth 315.607 kHz

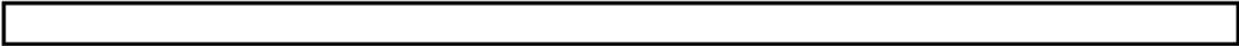


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Mid Channel – 860.0 MHz		
	Output		

✱ Agilent 09:32:05 Jan 24, 2006

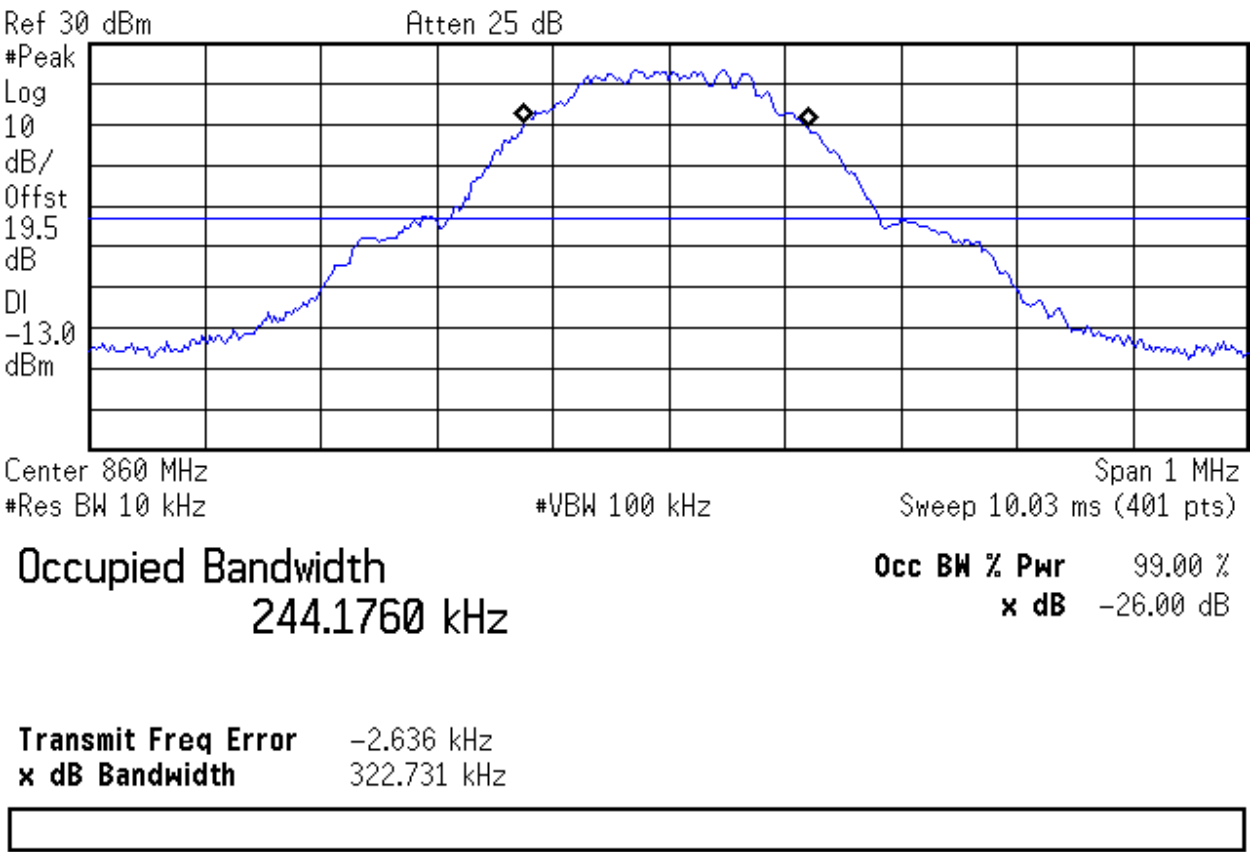
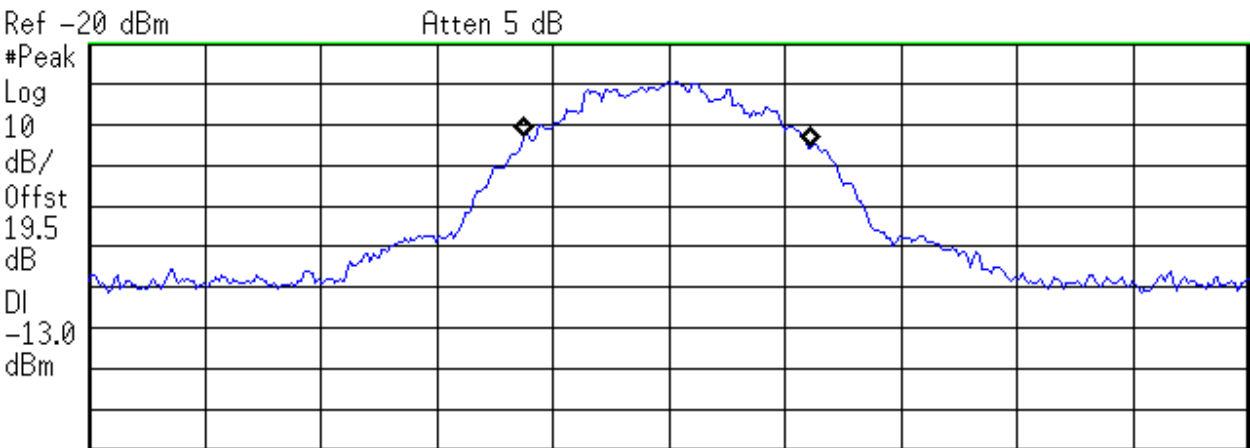


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Hi Channel – 868.8 MHz		
	Input		

✱ Agilent 09:58:56 Jan 24, 2006



Center 868.8 MHz Span 1 MHz
#Res BW 10 kHz #VBW 100 kHz Sweep 10.03 ms (401 pts)

Occupied Bandwidth
247.8309 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -510.503 Hz
x dB Bandwidth 319.313 kHz

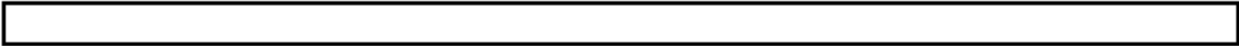
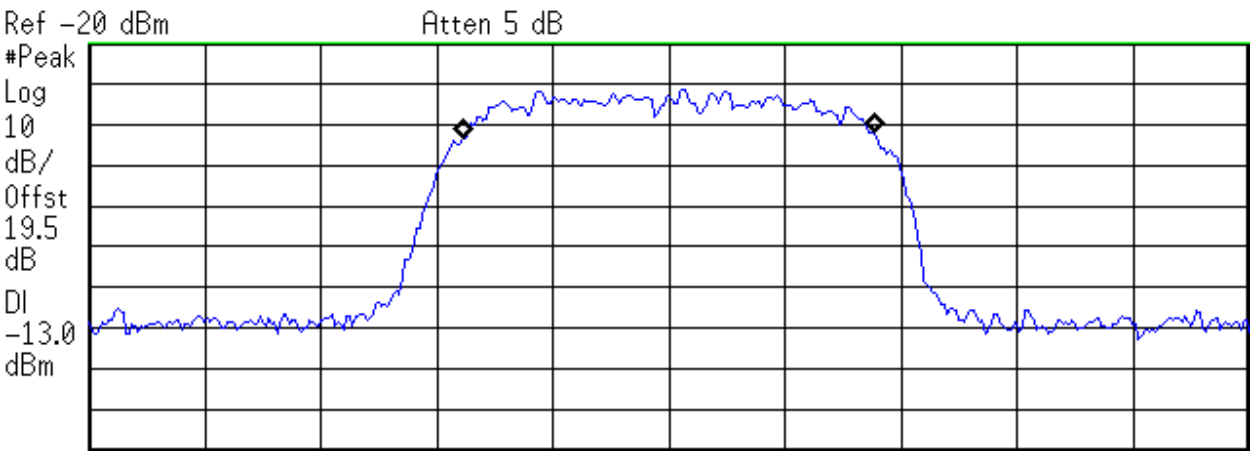


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Lo Channel – 851.02 MHz		
	Input		

✱ Agilent 10:33:10 Jan 24, 2006



Center 851 MHz Span 80 kHz
#Res BW 1 kHz #VBW 10 kHz Sweep 80.26 ms (401 pts)

Occupied Bandwidth
28.3053 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -4.212 Hz
x dB Bandwidth 33.017 kHz



FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Lo Channel – 851.02 MHz		
	Output		

Agilent 08:55:36 Jan 24, 2006

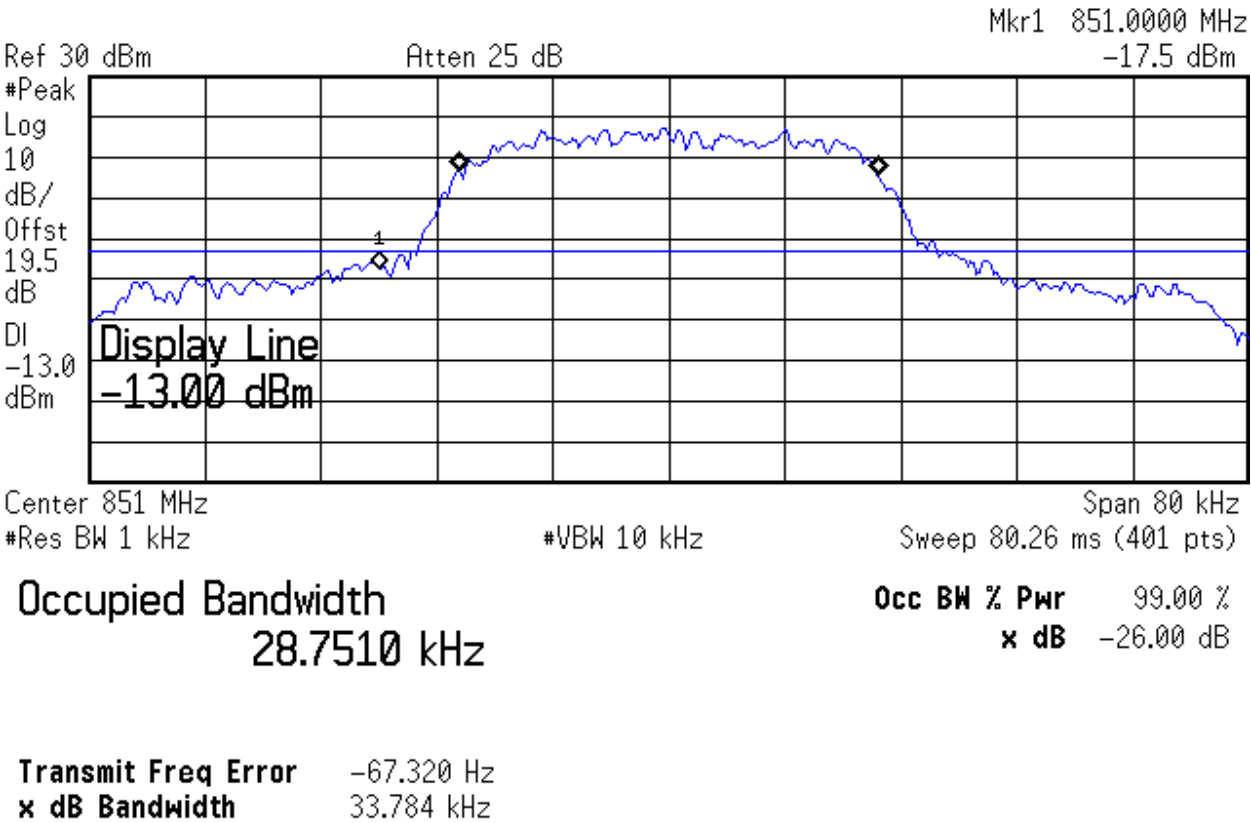
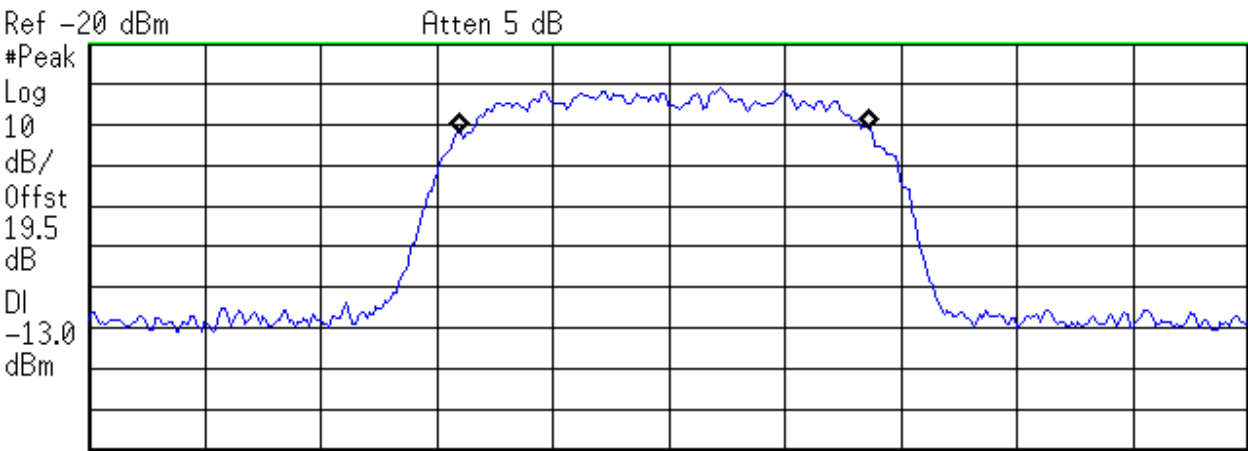


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Occupied Bandwidth	
DNB Job Number:	58130	Date:	24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc			
Model Number:	CBA-HPNEX	Serial Number:		
Description:	RF amplifier			
	Downlink – TDMA – Mid Channel – 860.0 MHz			
	Input			

✱ Agilent 10:34:08 Jan 24, 2006



Center 860 MHz Span 80 kHz
#Res BW 1 kHz #VBW 10 kHz Sweep 80.26 ms (401 pts)

Occupied Bandwidth **Occ BW % Pwr** 99.00 %
28.2412 kHz **x dB** -26.00 dB

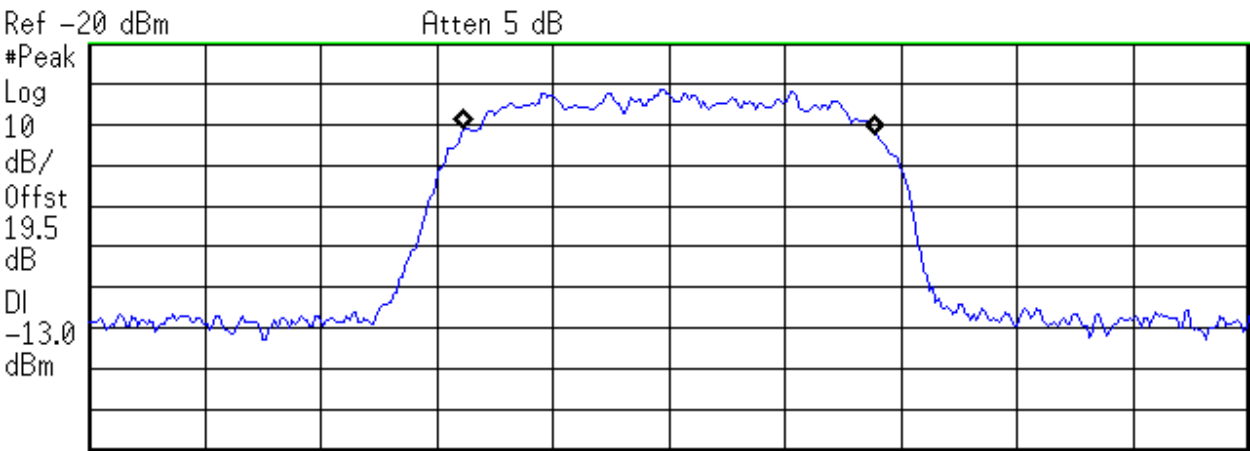
Transmit Freq Error -246.416 Hz
x dB Bandwidth 33.269 kHz



FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Hi Channel – 868.98 MHz		
	Input		

✱ Agilent 10:34:58 Jan 24, 2006



Center 869 MHz Span 80 kHz
#Res BW 1 kHz #VBW 10 kHz Sweep 80.26 ms (401 pts)

Occupied Bandwidth
28.4553 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

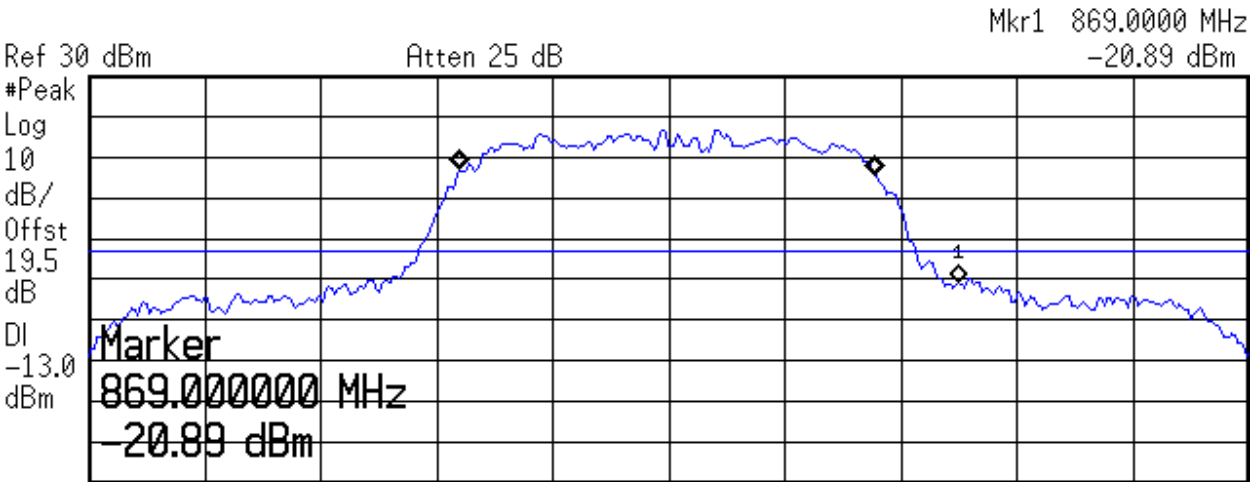
Transmit Freq Error 55.987 Hz
x dB Bandwidth 33.067 kHz



FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Occupied Bandwidth	
DNB Job Number:	58130	Date: 24 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Hi Channel – 869.98 MHz		
	Output		

Agilent 08:58:02 Jan 24, 2006



Center 869 MHz Span 80 kHz
#Res BW 1 kHz #VBW 10 kHz Sweep 80.26 ms (401 pts)

Occupied Bandwidth
28.6115 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -81.765 Hz
x dB Bandwidth 33.191 kHz

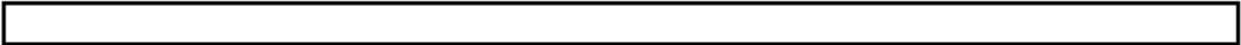
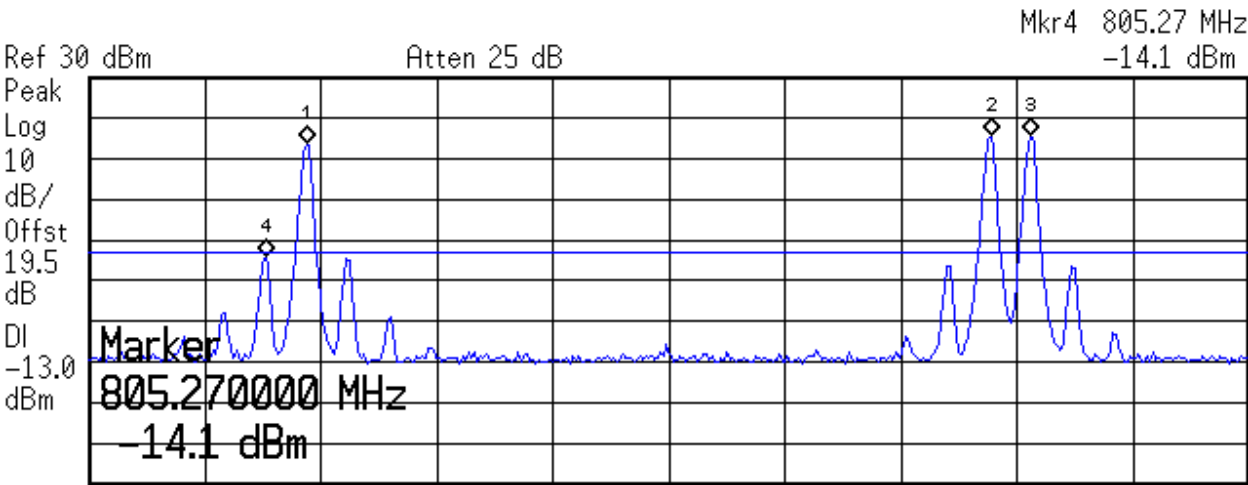


FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Inter-Modulation	
DNB Job Number:	58130	Date: 23 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – CW – Input – Lo / Near Hi / Hi channels		
	28 MHz Span		

Agilent 14:37:23 Jan 23, 2006



Center 815 MHz Span 28 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

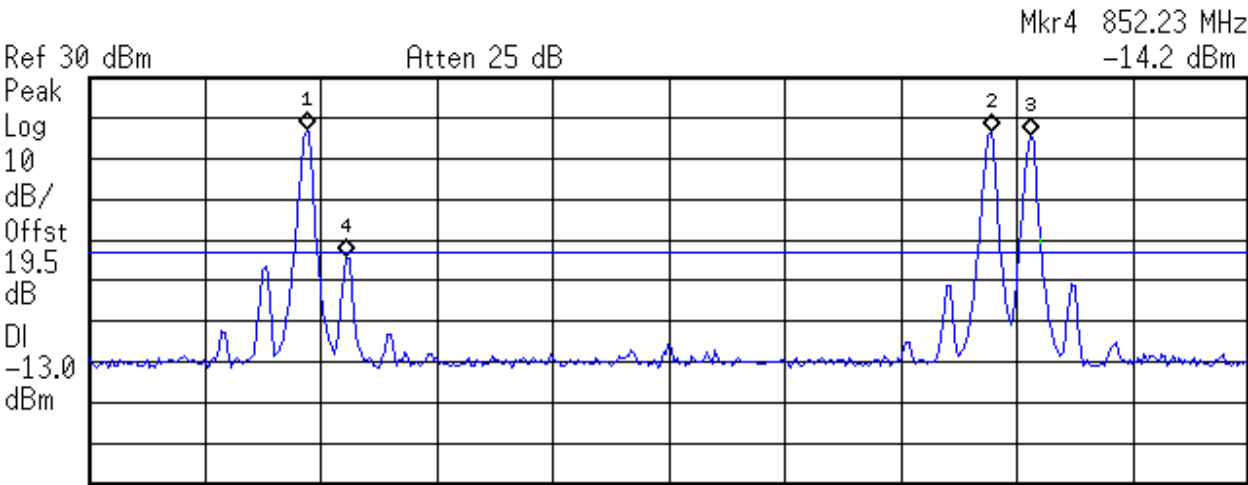
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	806.25 MHz	13.6 dBm
2	(1)	Freq	822.77 MHz	15.55 dBm
3	(1)	Freq	823.75 MHz	15.46 dBm
4	(1)	Freq	805.27 MHz	-14.1 dBm

--

FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Inter-Modulation	
DNB Job Number:	58130	Date:	23 Jan 2006
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier Downlink – CW – Input – Lo / Near Hi / Hi channels 28 Mhz Span		

Agilent 14:31:31 Jan 23, 2006



Center 860 MHz Span 28 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

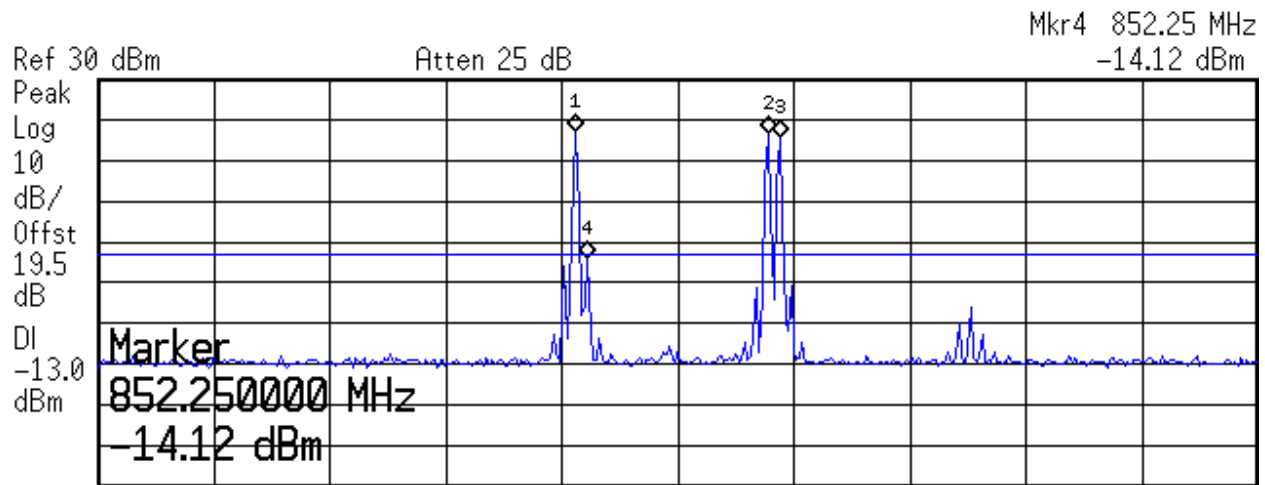
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	851.25 MHz	17.02 dBm
2	(1)	Freq	867.77 MHz	16.41 dBm
3	(1)	Freq	868.75 MHz	15.64 dBm
4	(1)	Freq	852.23 MHz	-14.2 dBm

--

FIGURE 6: OCCUPIED BANDWIDTH

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Inter-Modulation	
DNR Job Number:	58130	Date: 23 Jan 2006	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – CW – Input – Lo / Near Hi / Hi channels		
	100MHz Span		

Agilent 14:33:12 Jan 23, 2006



Center 860 MHz Span 100 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 10.36 ms (401 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	851.25 MHz	17.08 dBm
2	(1)	Freq	867.75 MHz	16.49 dBm
3	(1)	Freq	868.75 MHz	15.71 dBm
4	(1)	Freq	852.25 MHz	-14.12 dBm

2.1051 Spurious Emissions at Antenna Terminals (IC RSS-131 Clause 4.4)

Definition:

Conducted Spurious Emissions are emissions at the antenna terminals on a frequency or frequencies which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communication desired. The reduction in the level of these spurious emissions will not affect the quality of the information being transmitted.

Conducted Spurious Emissions shall be attenuated below the maximum level of the carrier frequency in accordance with the following formula:

$$-13\text{dB} = \text{Measured Power} - (43 + 10 \log_{10} (\text{Rated Power}))$$

Test Method: Per EIA RS 152-B, Paragraph 4 as modified below.

Connect the equipment as shown in FIGURE 1.

Adjust the drive source to produce FM modulation. Adjust the Spectrum Analyzer to display the Modulated Carrier.

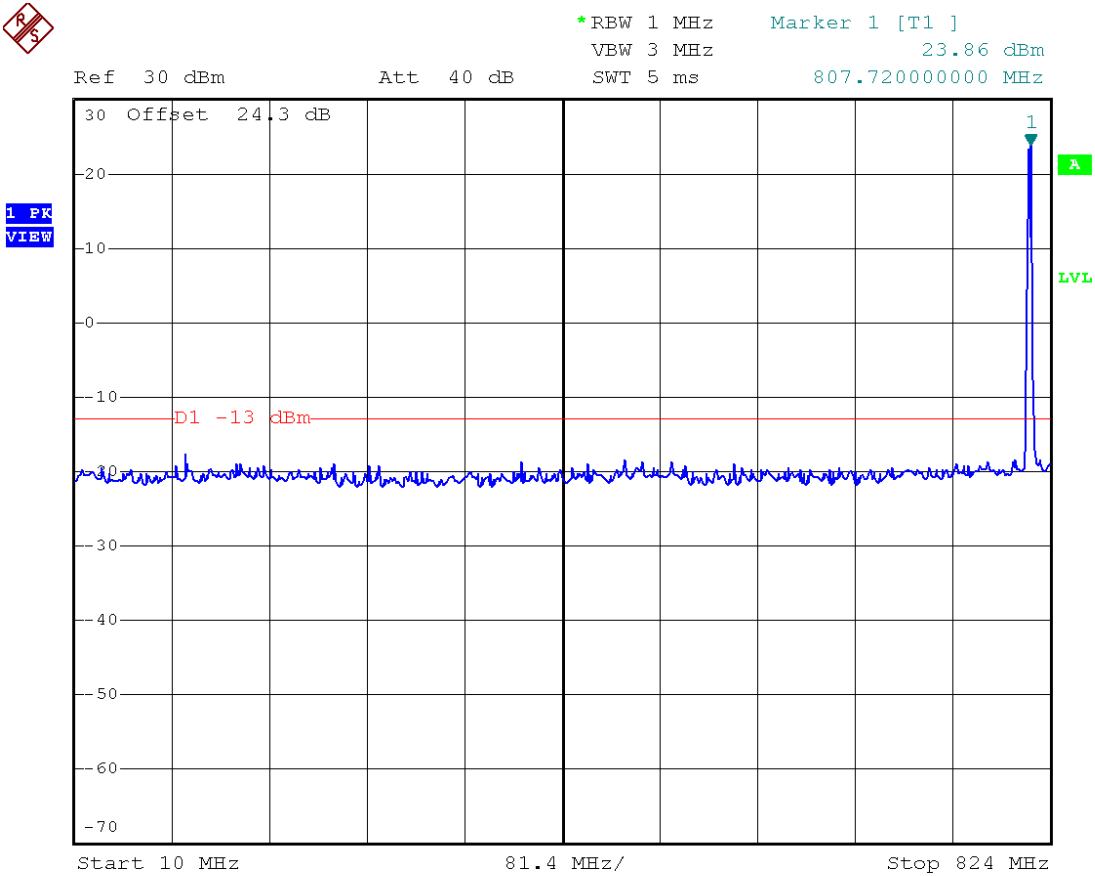
Scan the frequency spectrum from the lowest radio frequency generated in the equipment through the 10th harmonic of the carrier frequency.

Test Results: See Plots

All spurious emissions at the antenna terminals are below the IC/FCC specifications

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Lo Channel – 806.0 MHz		

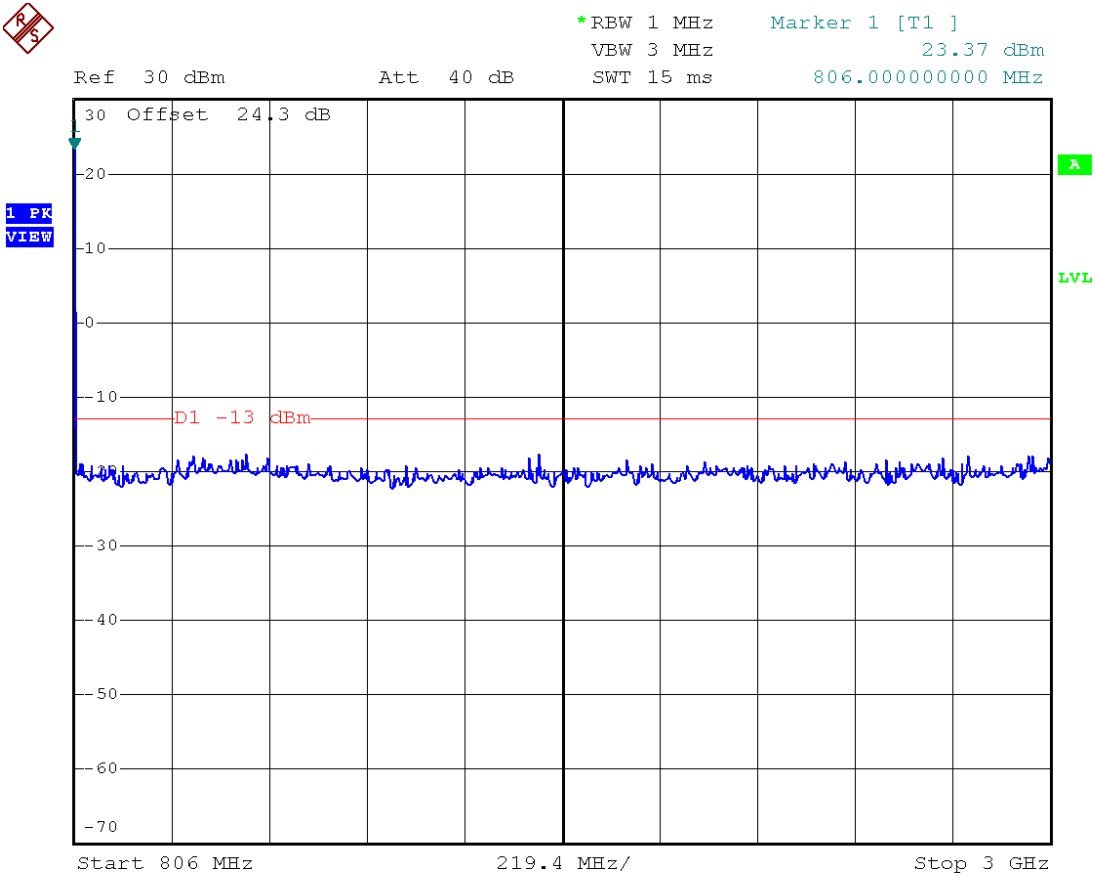


CONDUCTED SPURIOUS GSM LOW

Date: 9.MAY.2005 20:49:47

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Lo Channel – 806.0 MHz		

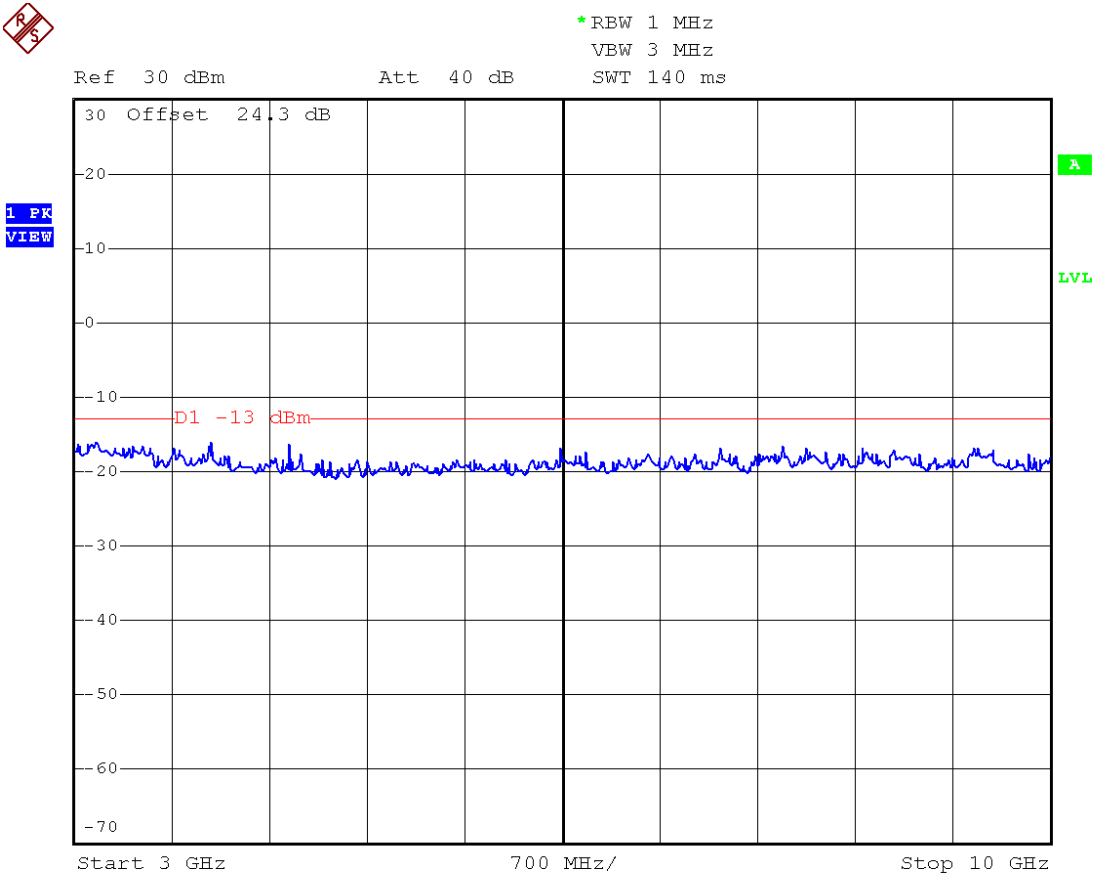


CONDUCTED SPURIOUS GSM LOW

Date: 9.MAY.2005 20:48:30

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNR Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Lo Channel – 806.0 MHz		

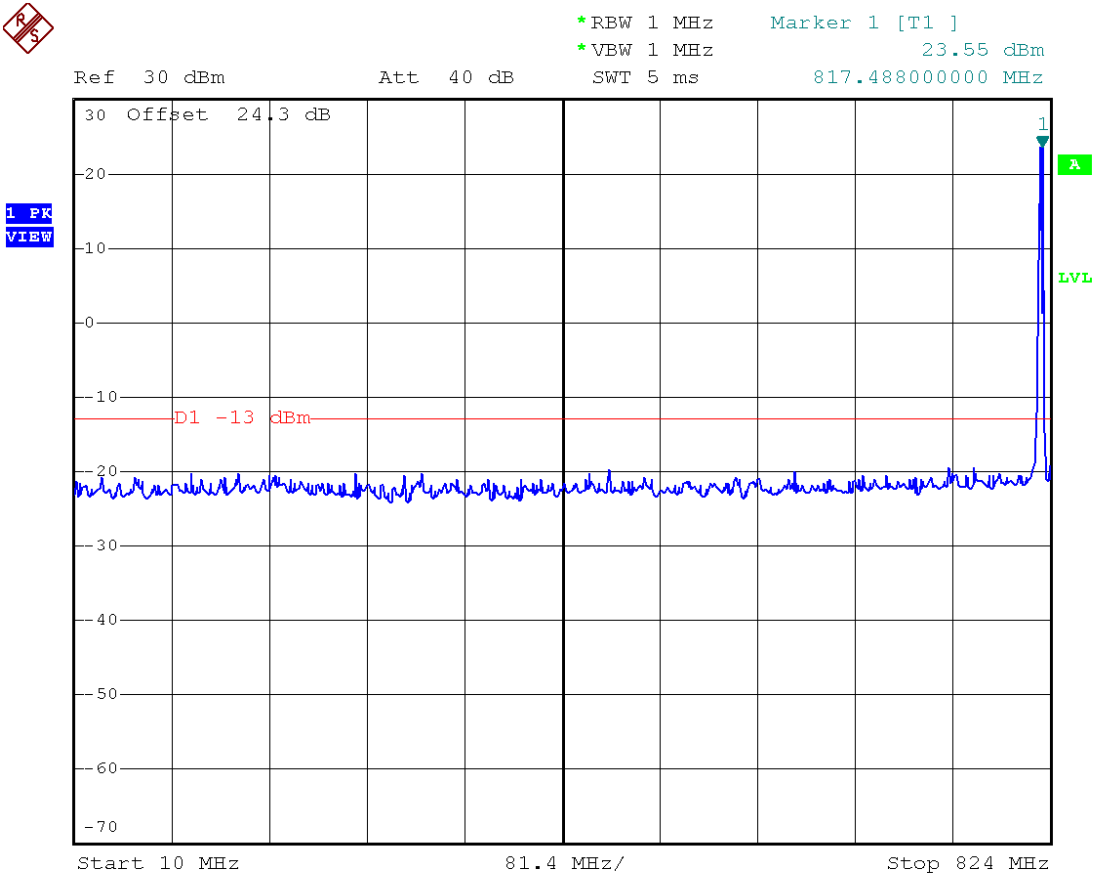


CONDUCTED SPURIOUS GSM LOW

Date: 9.MAY.2005 20:46:57

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Mid Channel – 815.0 MHz		

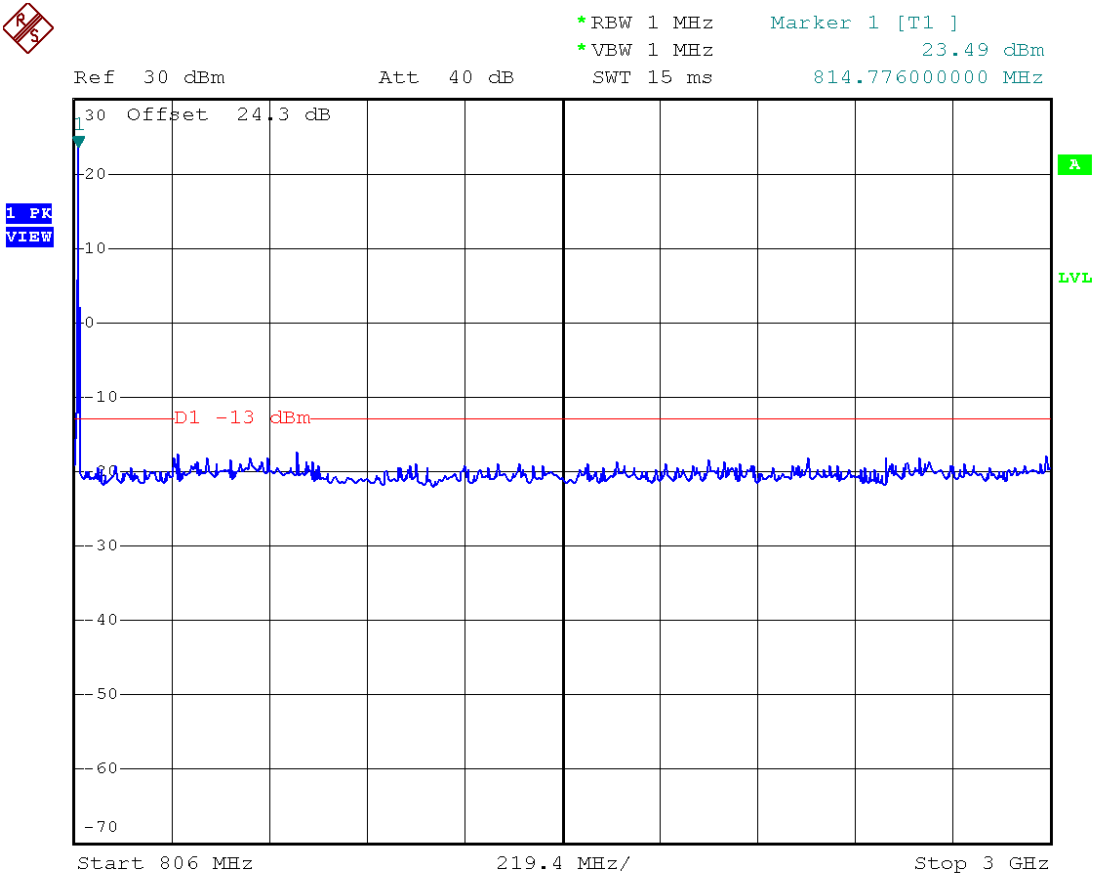


GSM conducted spurious input -42.9dBm

Date: 9.MAY.2005 18:22:47

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Mid Channel – 815.0 MHz		

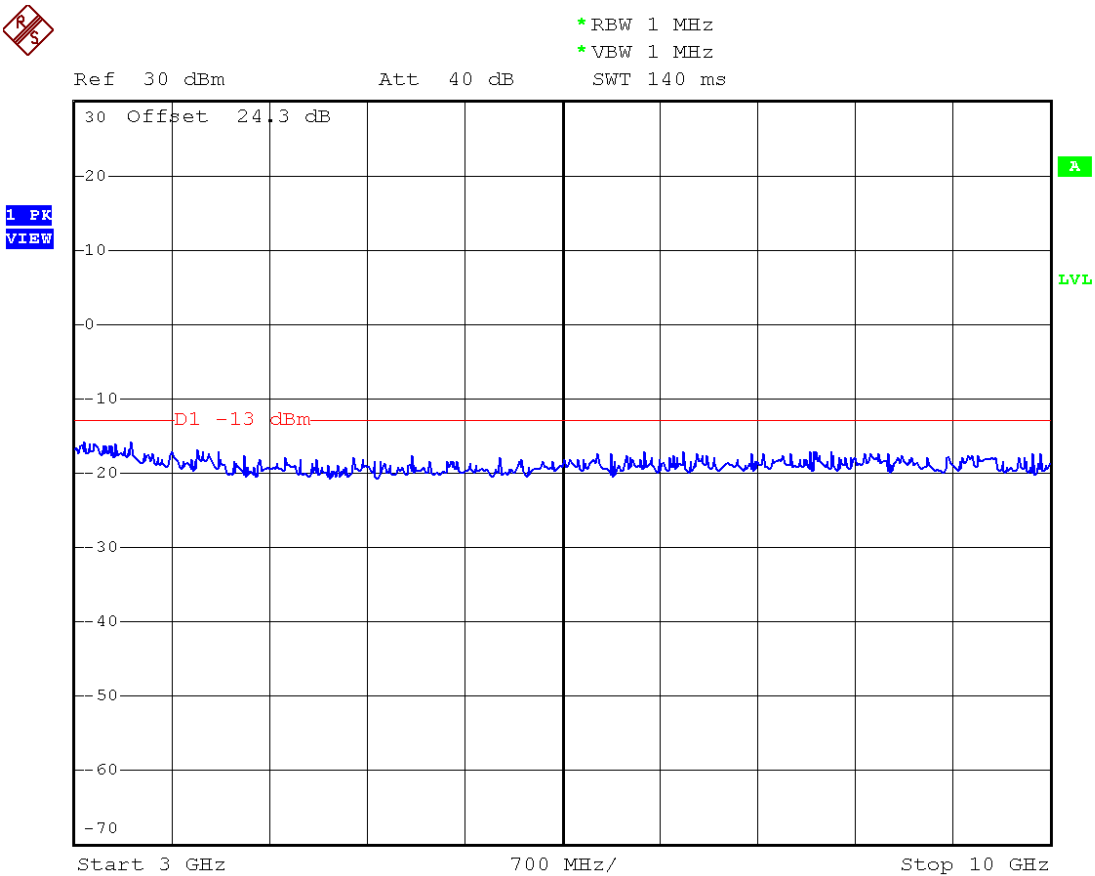


GSM conducted spurious input -42.9dBm

Date: 9.MAY.2005 18:21:32

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Mid Channel – 815.0 MHz		

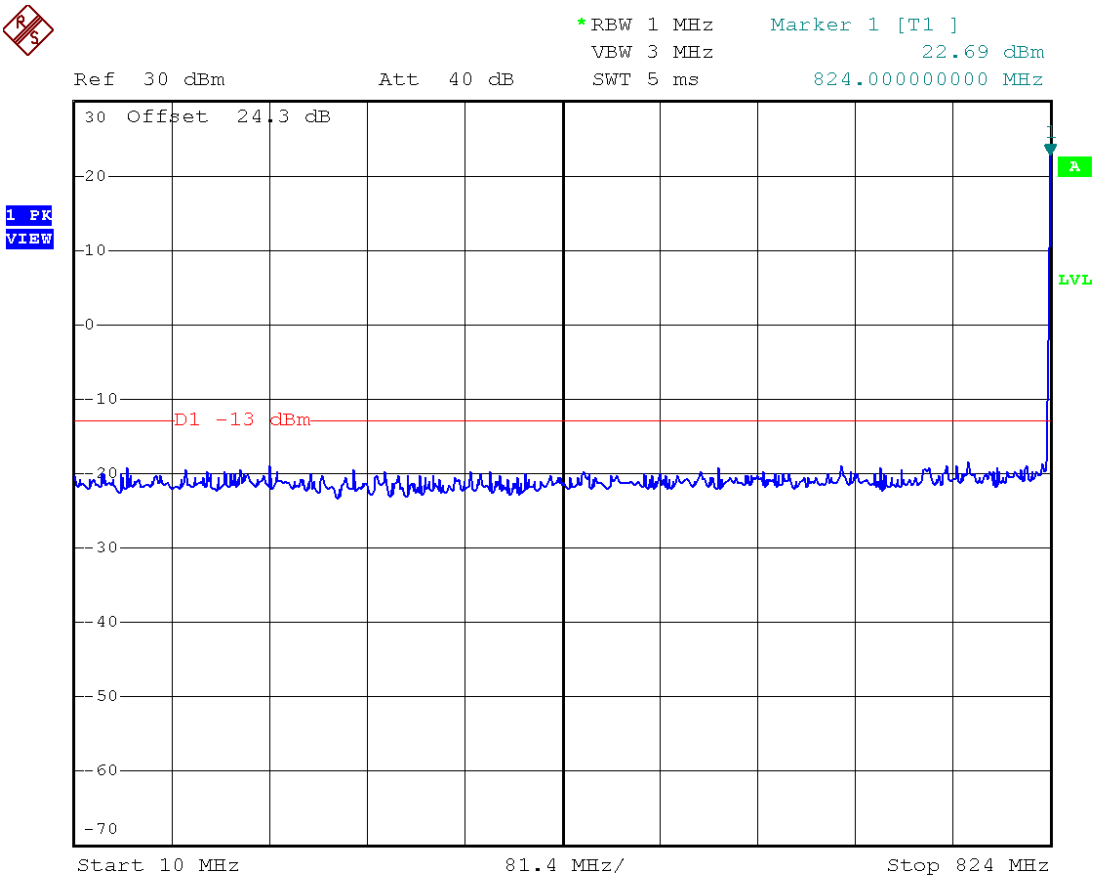


GSM conducted spurious input -42.9dBm

Date: 9.MAY.2005 18:20:03

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date:	9 May 2005
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier		
	Uplink – GSM – Hi Channel – 824.0 MHz		

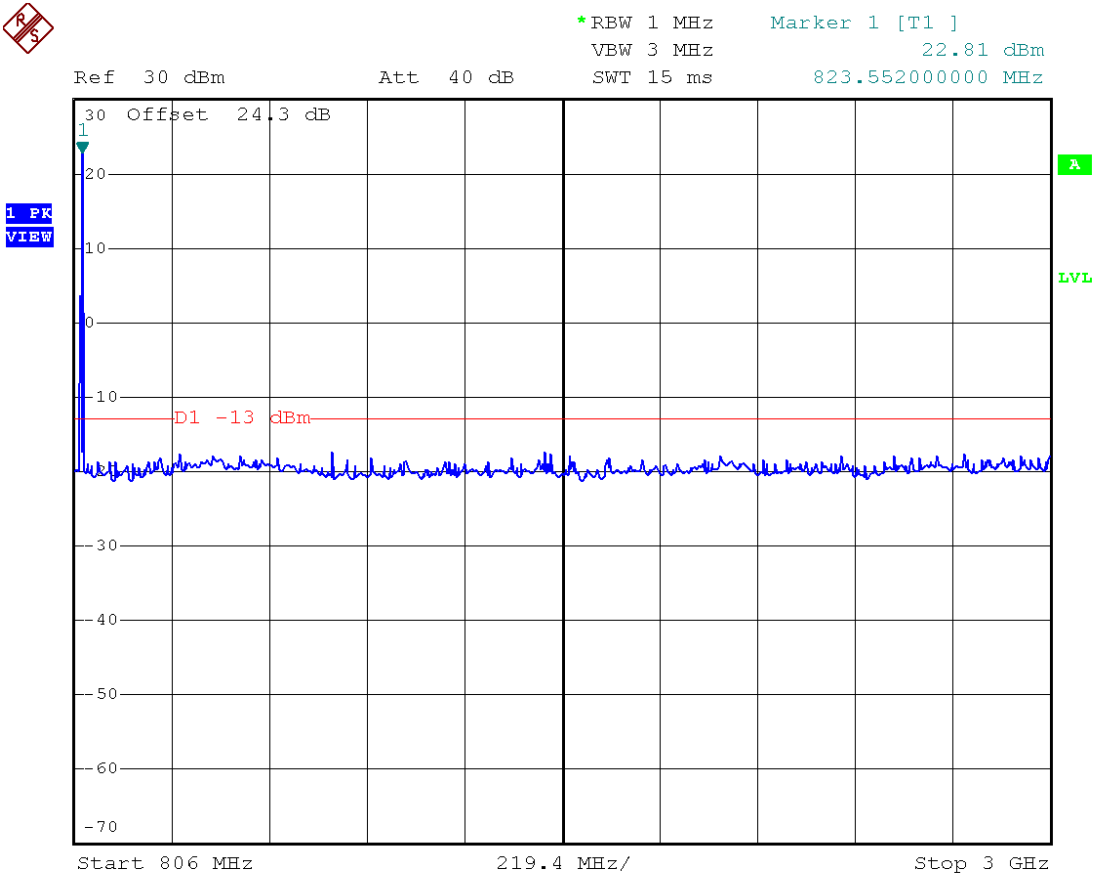


CSPURGSMHI1

Date: 9.MAY.2005 20:38:15

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date:	9 May 2005
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier		
	Uplink – GSM – Hi Channel – 824.0 MHz		

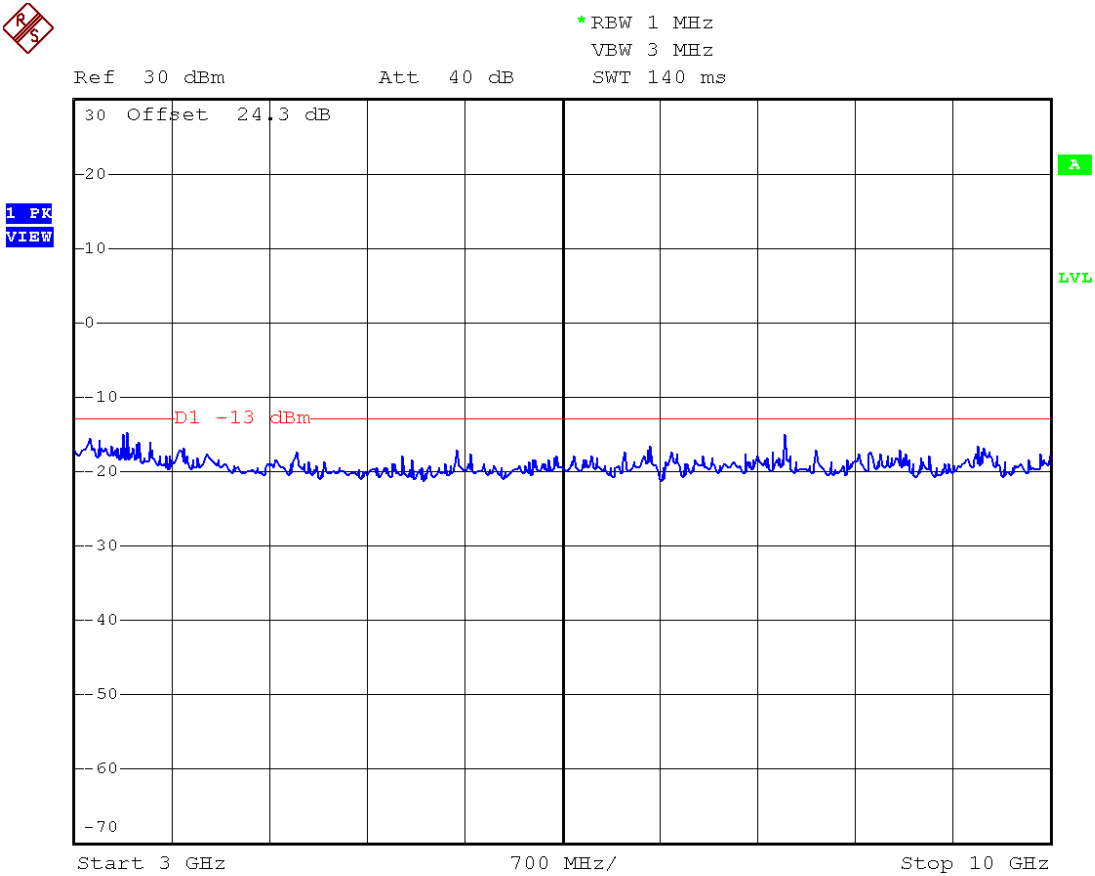


CSPURGSMHI2

Date: 9.MAY.2005 20:41:17

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – GSM – Hi Channel – 824.0 MHz		

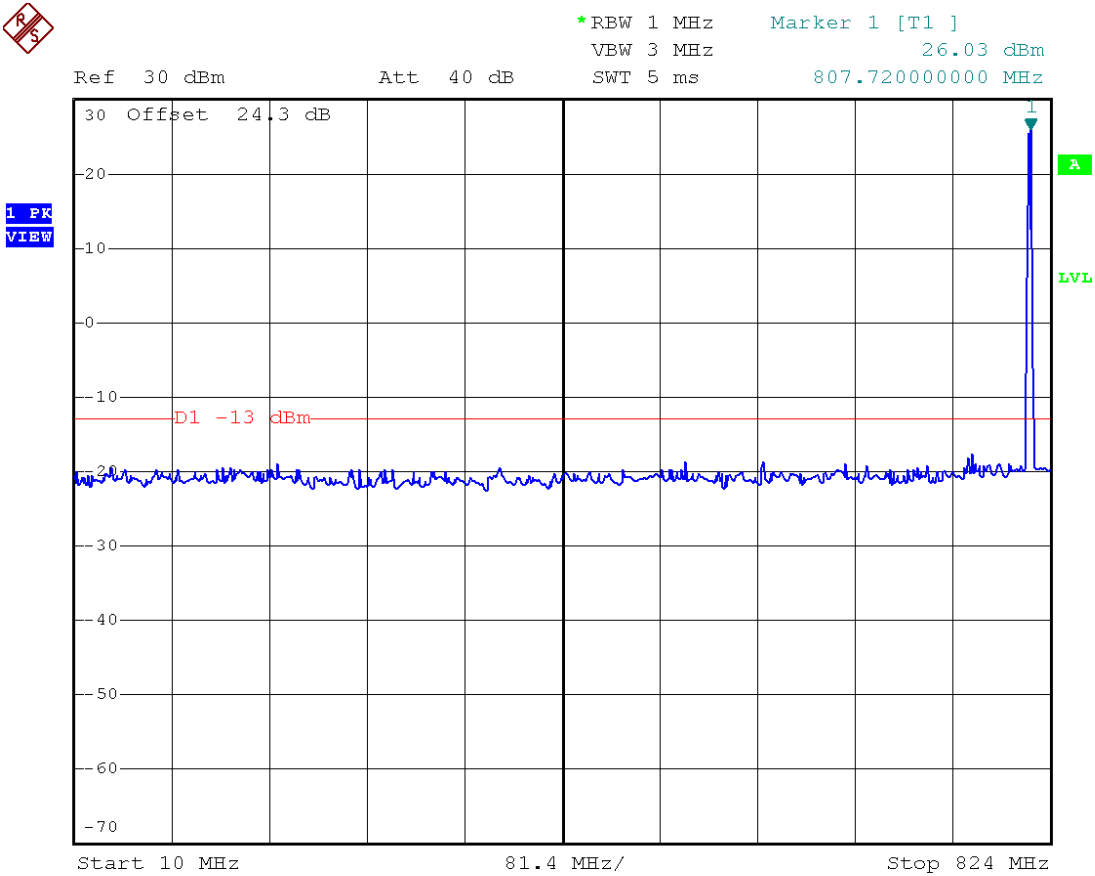


CONDUCTED SPURIOUS GSM HI

Date: 9.MAY.2005 20:43:27

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Lo Channel – 806.0 MHz		

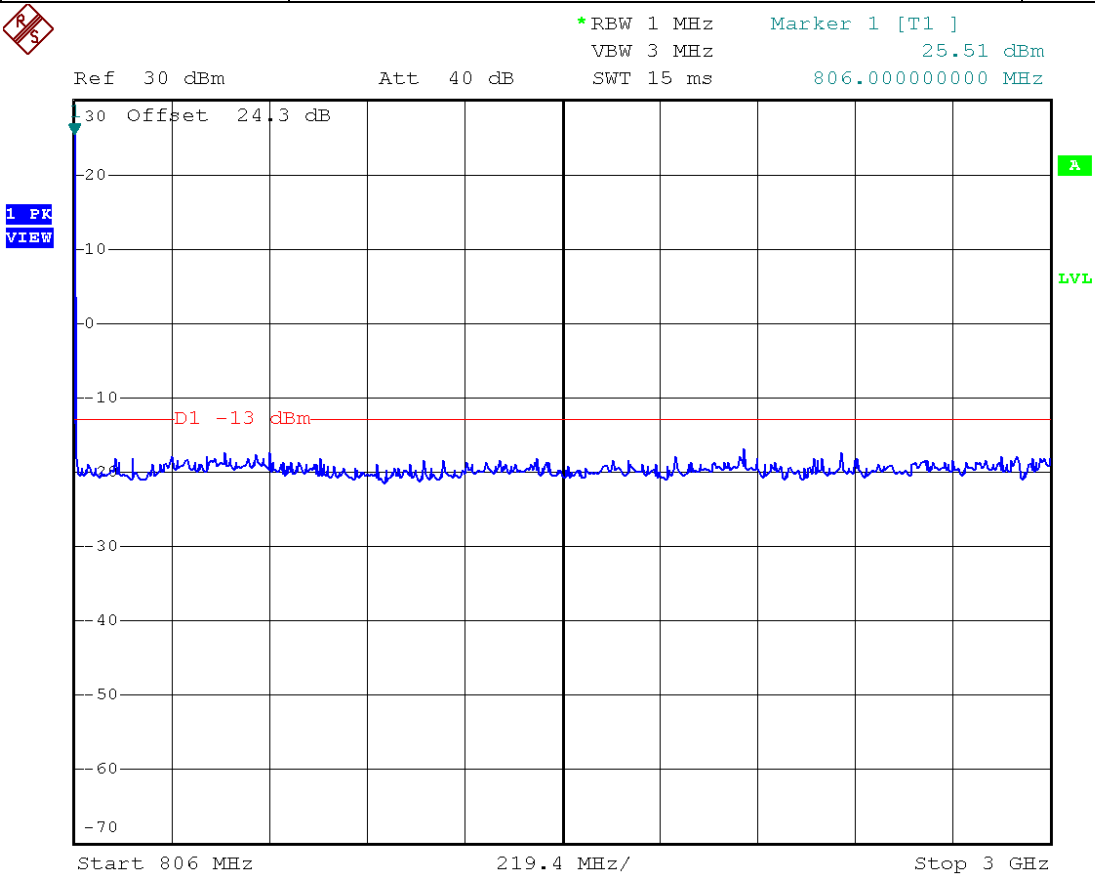


CONDUCTED SPURIOUS TDMA LOW

Date: 9.MAY.2005 20:51:23

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Lo Channel – 806.0 MHz		

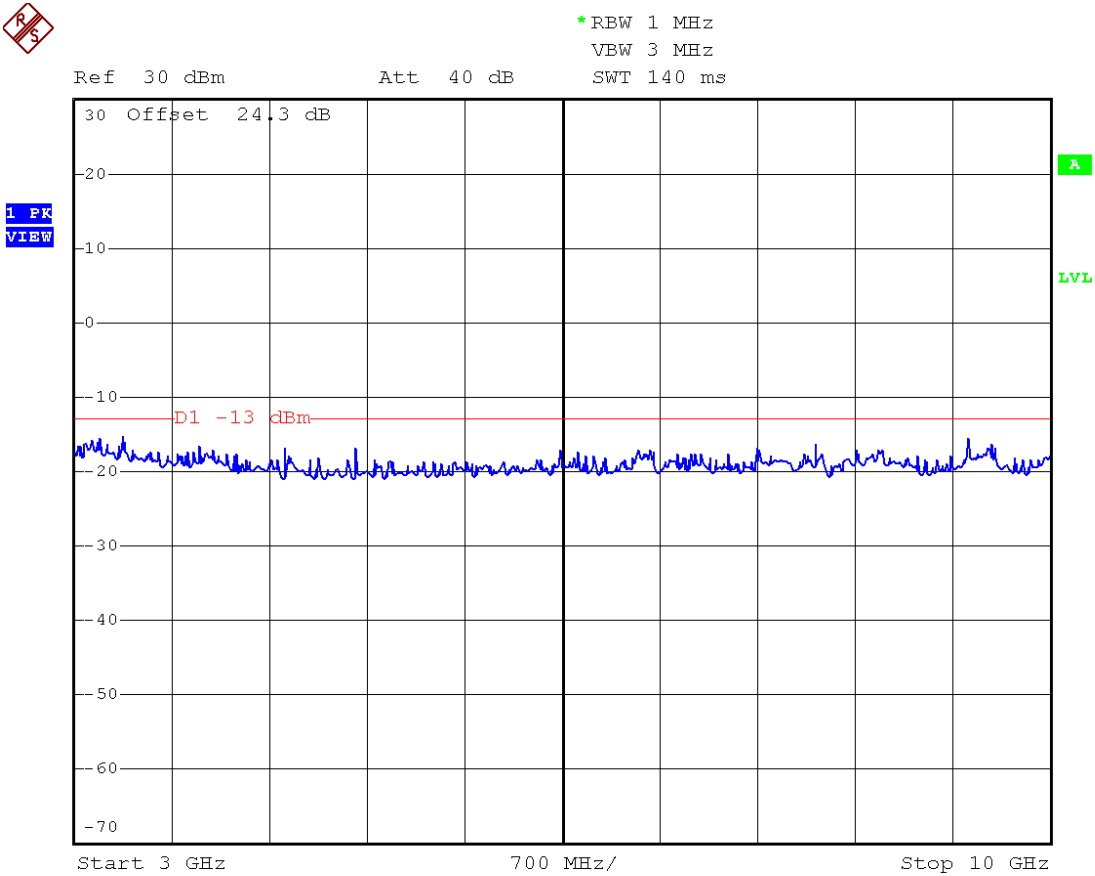


CONDUCTED SPURIOUS TDMA LOW

Date: 9.MAY.2005 20:52:33

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Lo Channel – 806.0 MHz		

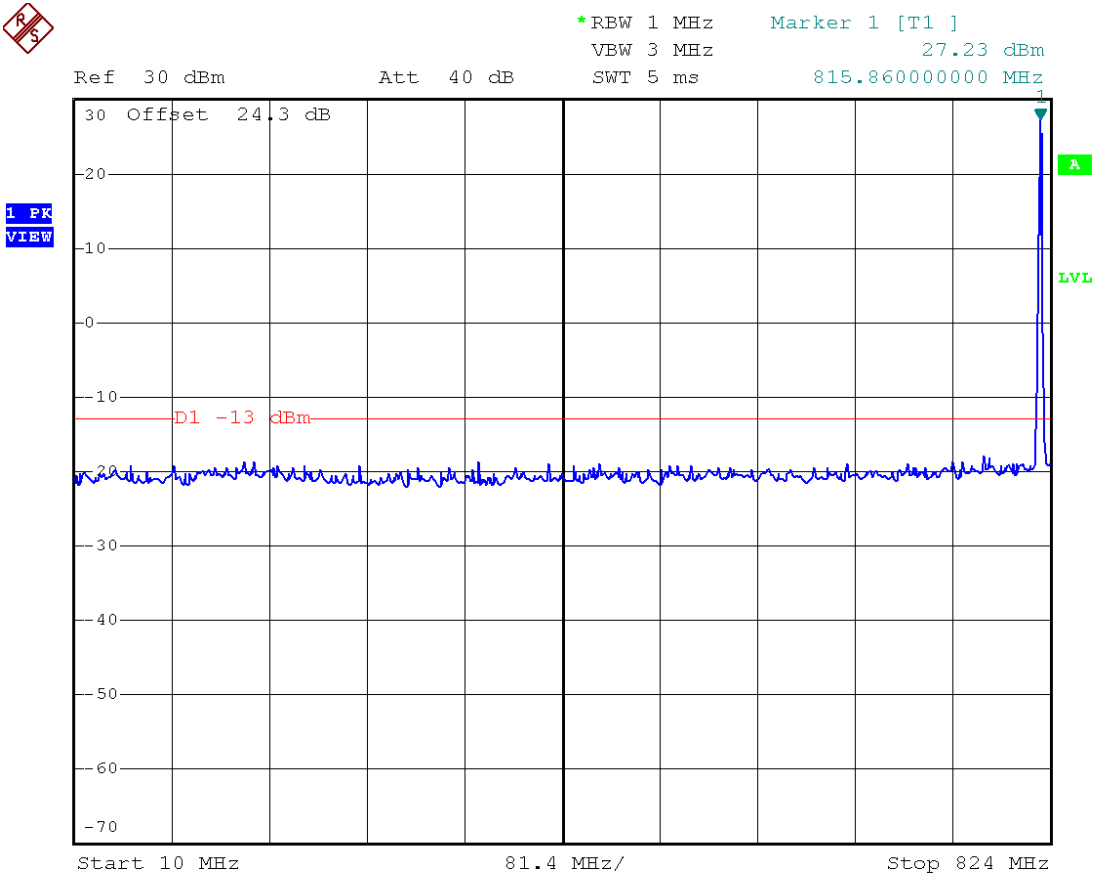


CONDUCTED SPURIOUS TDMA LOW

Date: 9.MAY.2005 20:53:55

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Mid Channel – 815.0 MHz		

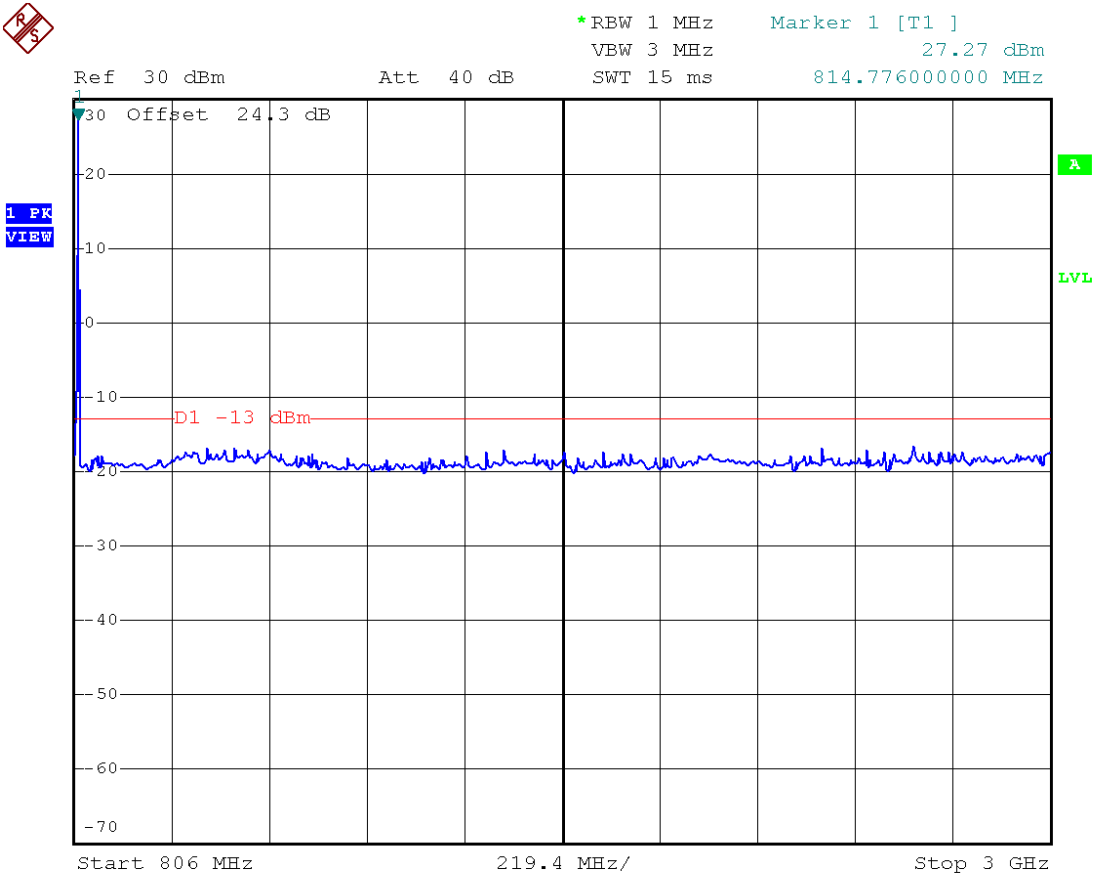


TDMA conducted spurious input -42.9dBm

Date: 9.MAY.2005 18:02:06

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Mid Channel – 815.0 MHz		

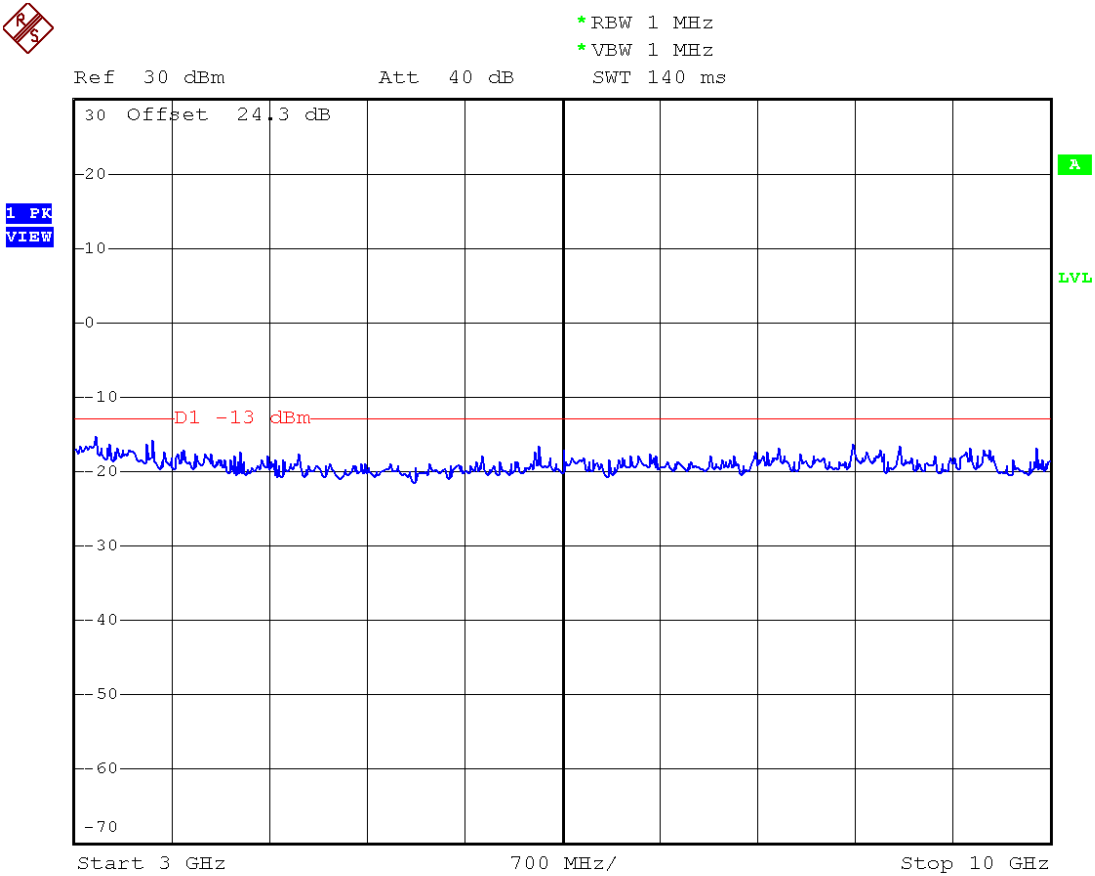


TDMA conducted spurious input -42.9dBm

Date: 9.MAY.2005 18:05:11

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Mid Channel – 815.0 MHz		

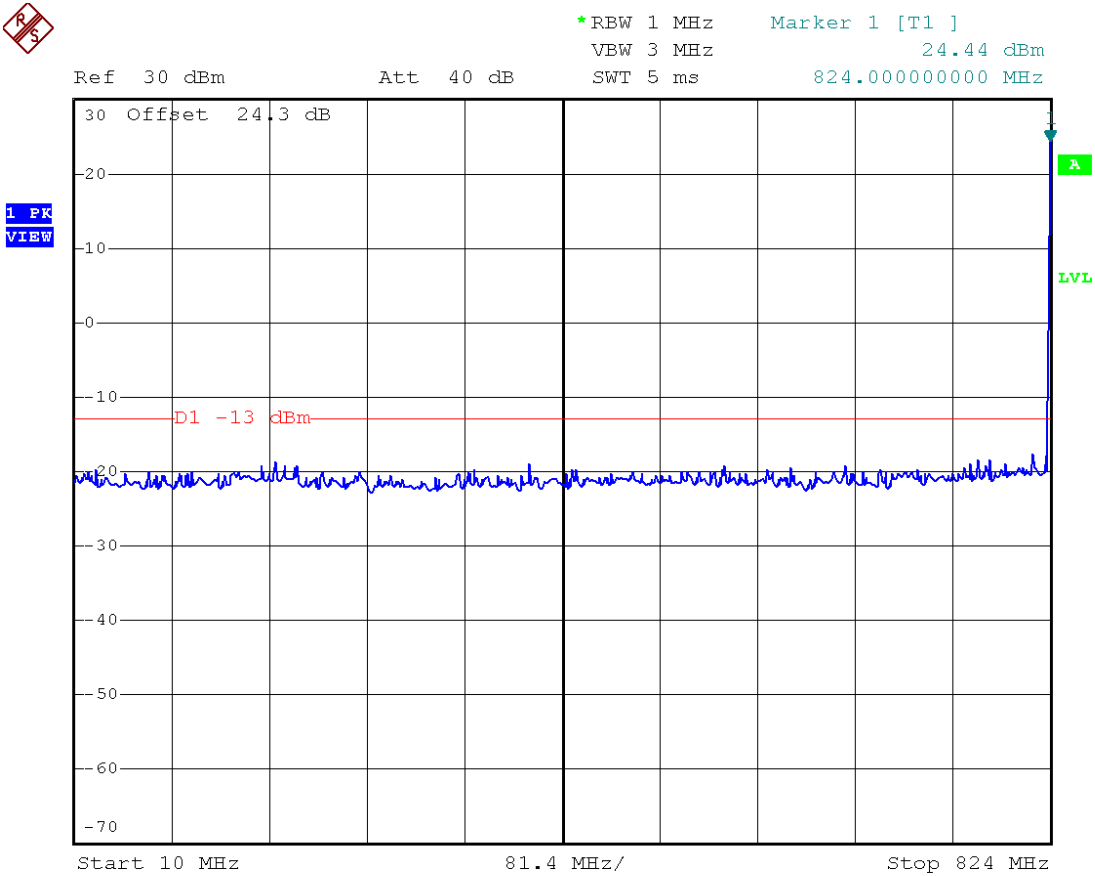


TDMA conducted spurious input -42.9dBm

Date: 9.MAY.2005 18:16:46

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Hi Channel – 824.0 MHz		

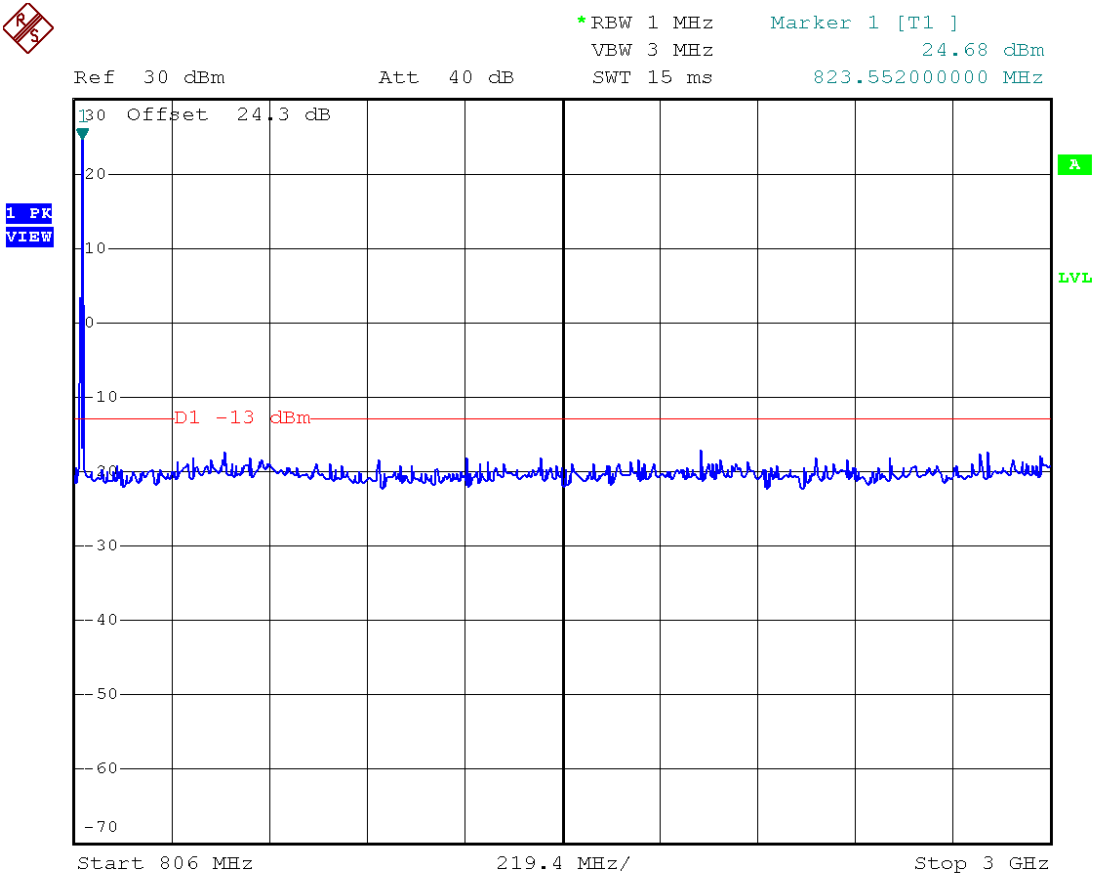


CONDUCTED SPURIOUS TDMA HI

Date: 9.MAY.2005 21:01:43

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Uplink – TDMA – Hi Channel – 824.0 MHz		

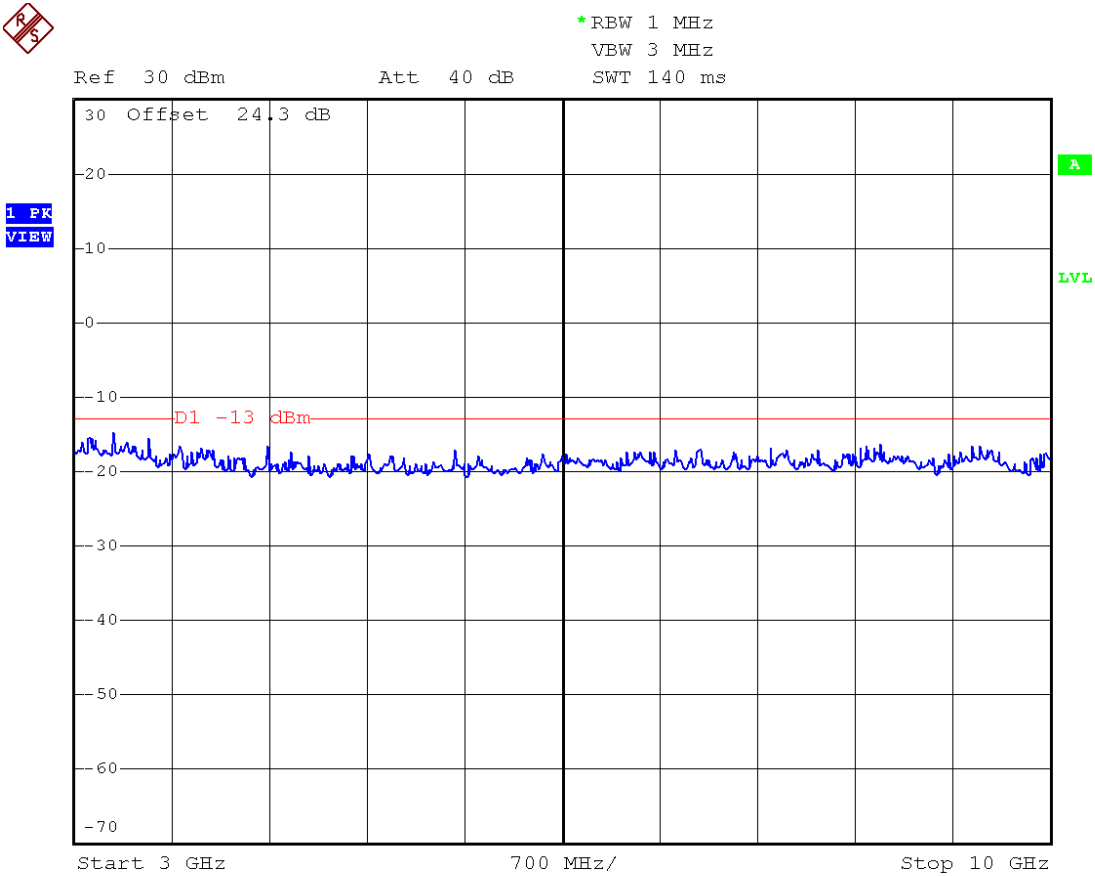


CONDUCTED SPURIOUS TDMA HI

Date: 9.MAY.2005 21:00:25

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier Uplink – TDMA – Hi Channel – 824.0 MHz		

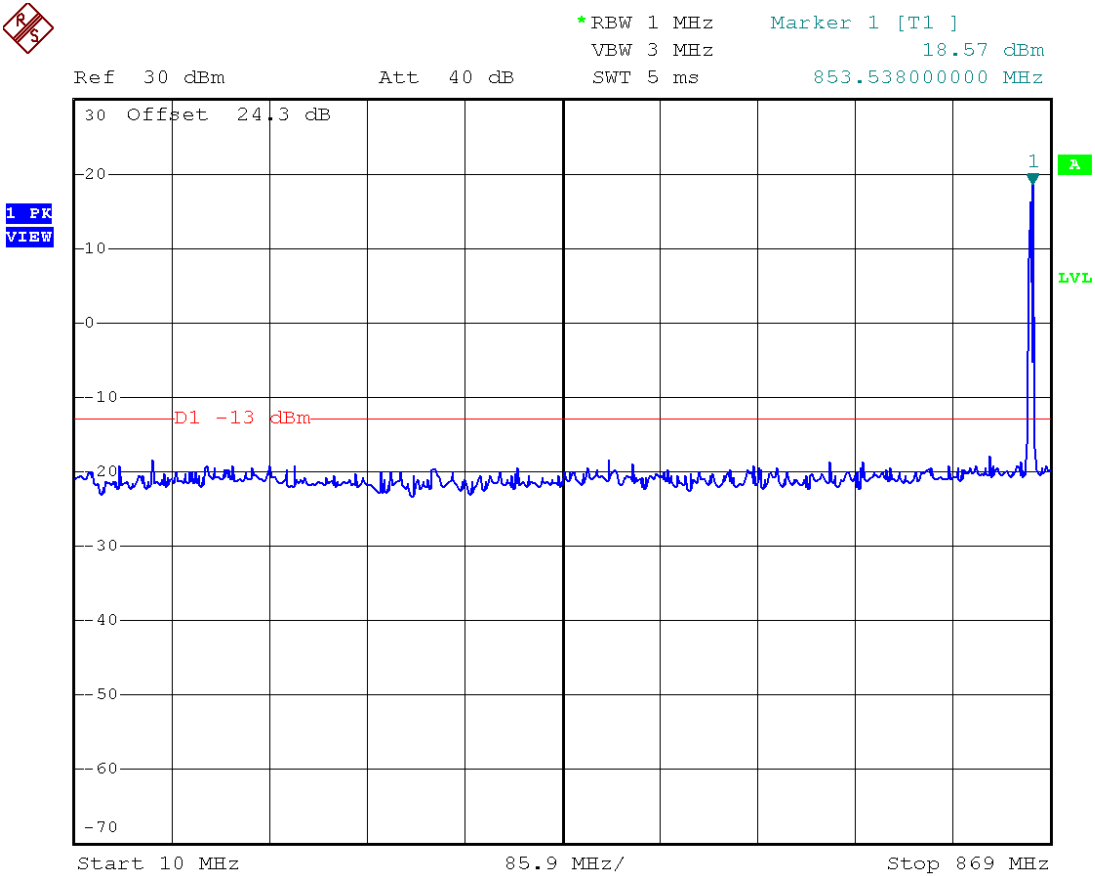


CONDUCTED SPURIOUS TDMA HI

Date: 9.MAY.2005 20:55:07

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

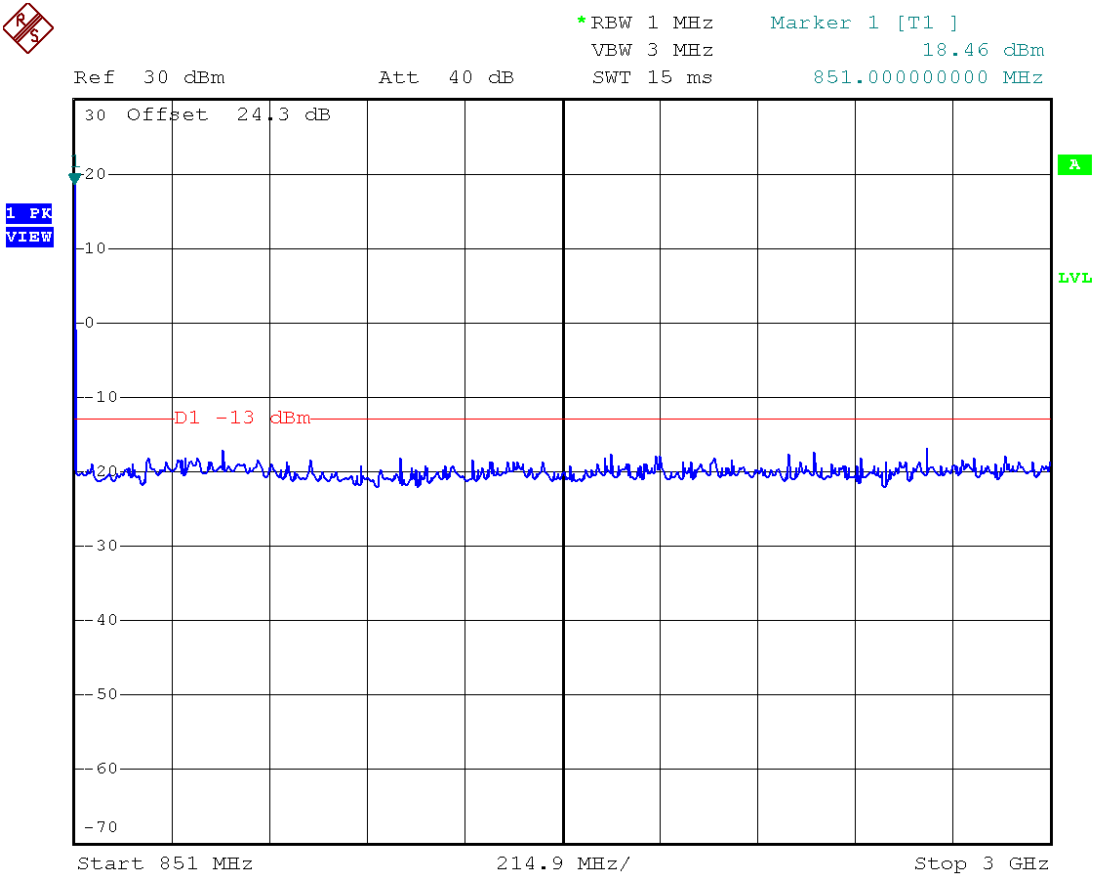
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Lo Channel – 851.0 MHz		



Date: 10.MAY.2005 16:42:07

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

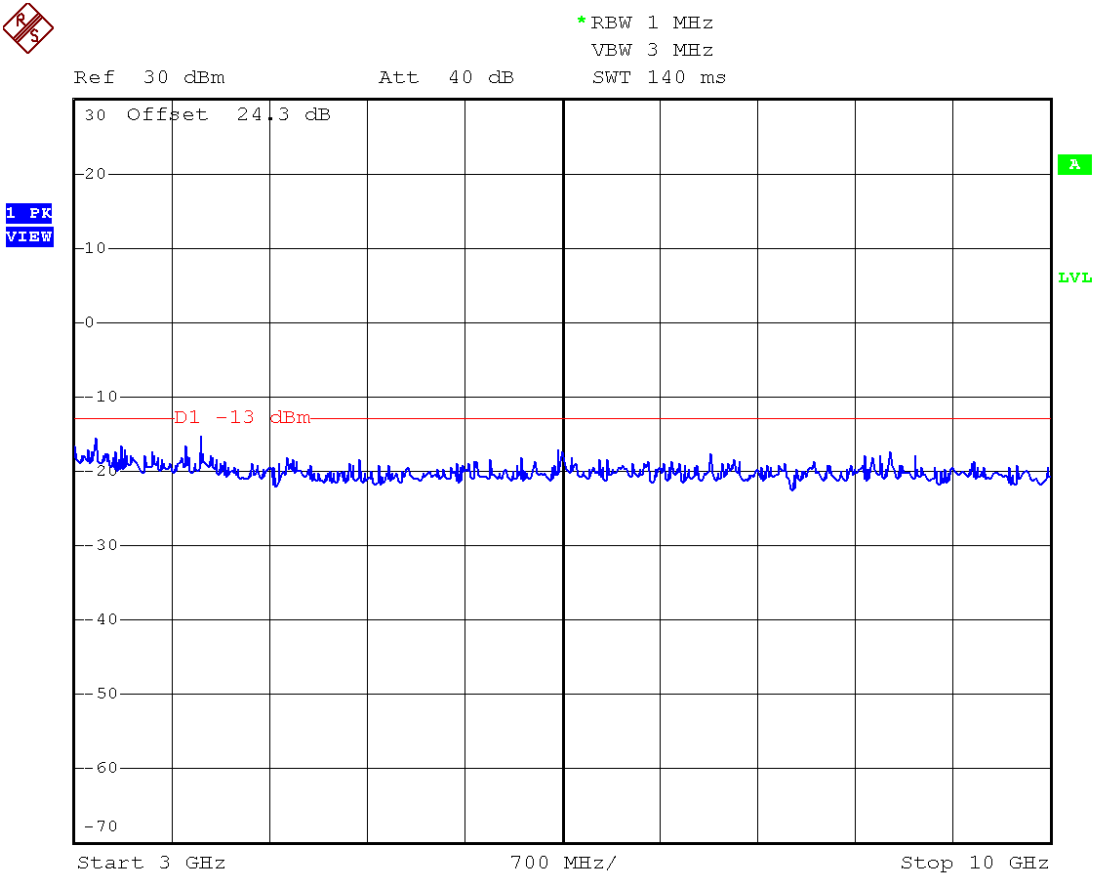
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Lo Channel – 851.0 MHz		



Date: 10.MAY.2005 16:44:09

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

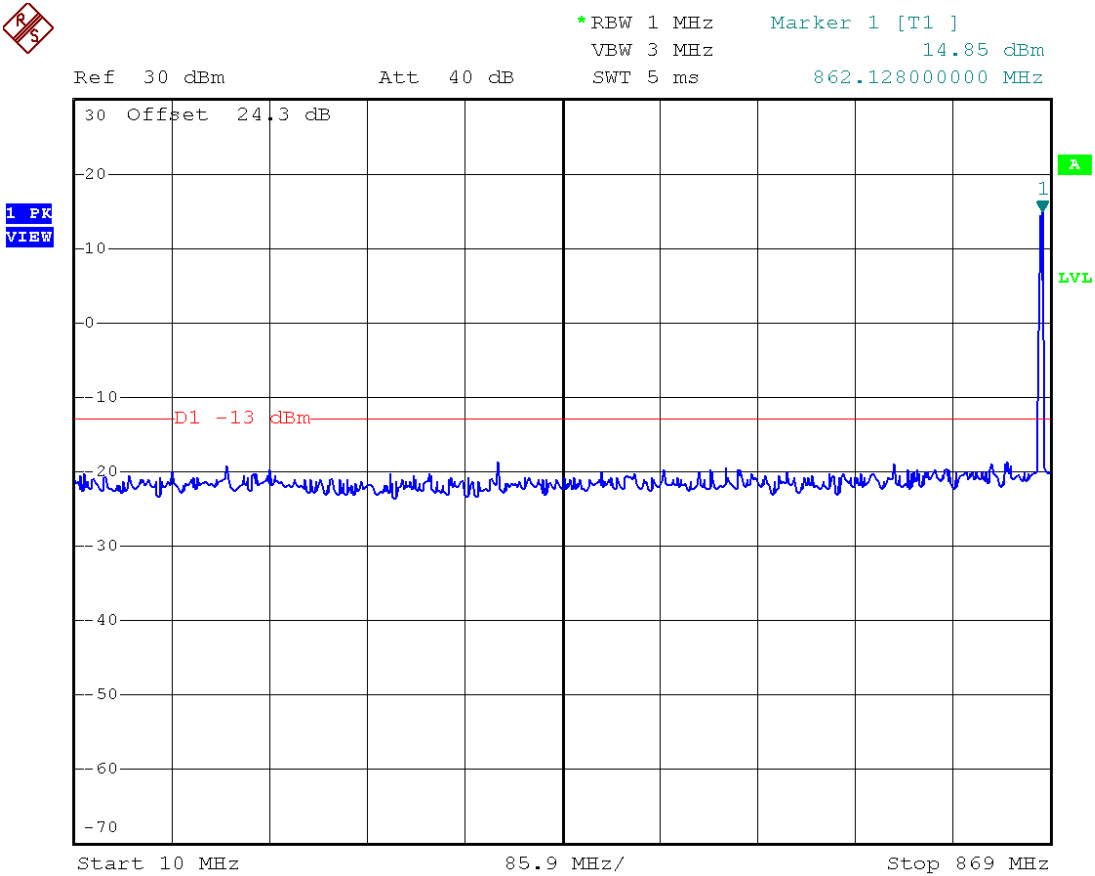
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Lo Channel – 851.0 MHz		



Date: 10.MAY.2005 16:45:11

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

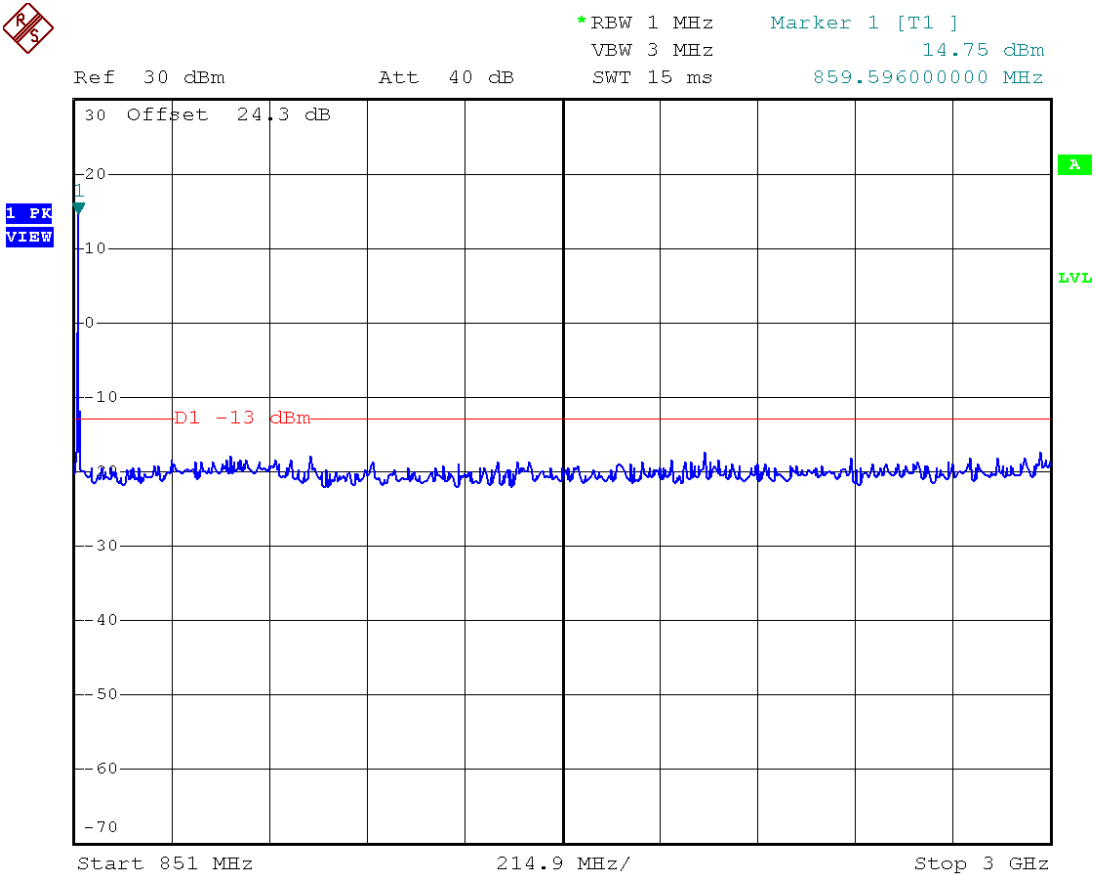
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Mid Channel – 860.0 MHz		



Date: 10.MAY.2005 16:31:40

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

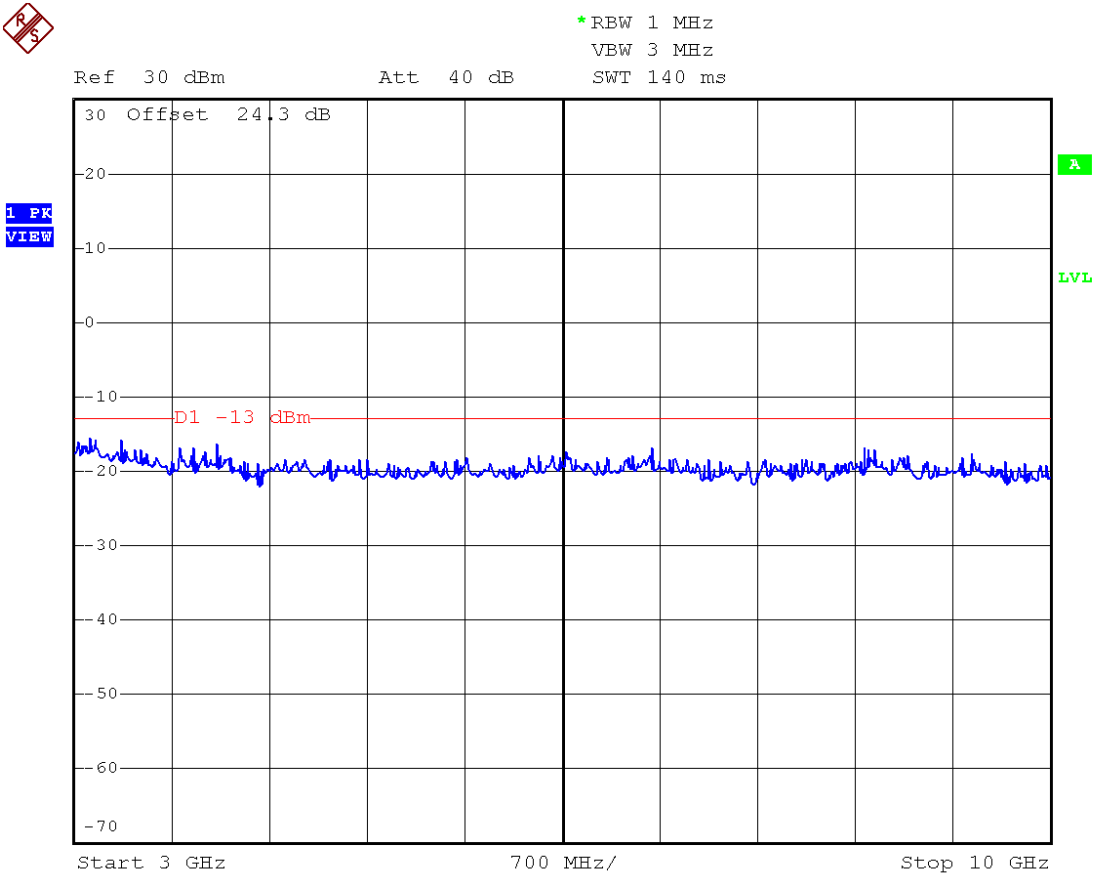
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Mid Channel – 860.0 MHz		



Date: 10.MAY.2005 16:33:13

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

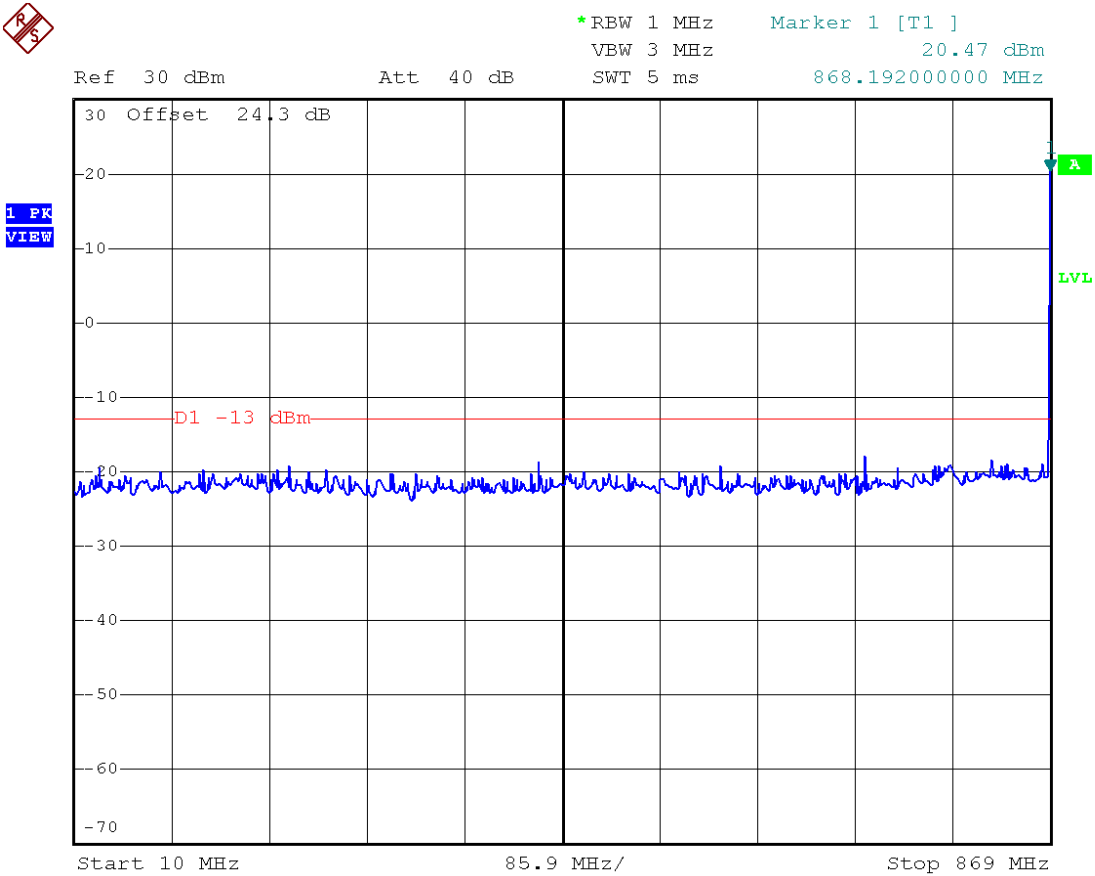
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Mid Channel – 860.0 MHz		



Date: 10.MAY.2005 16:34:31

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

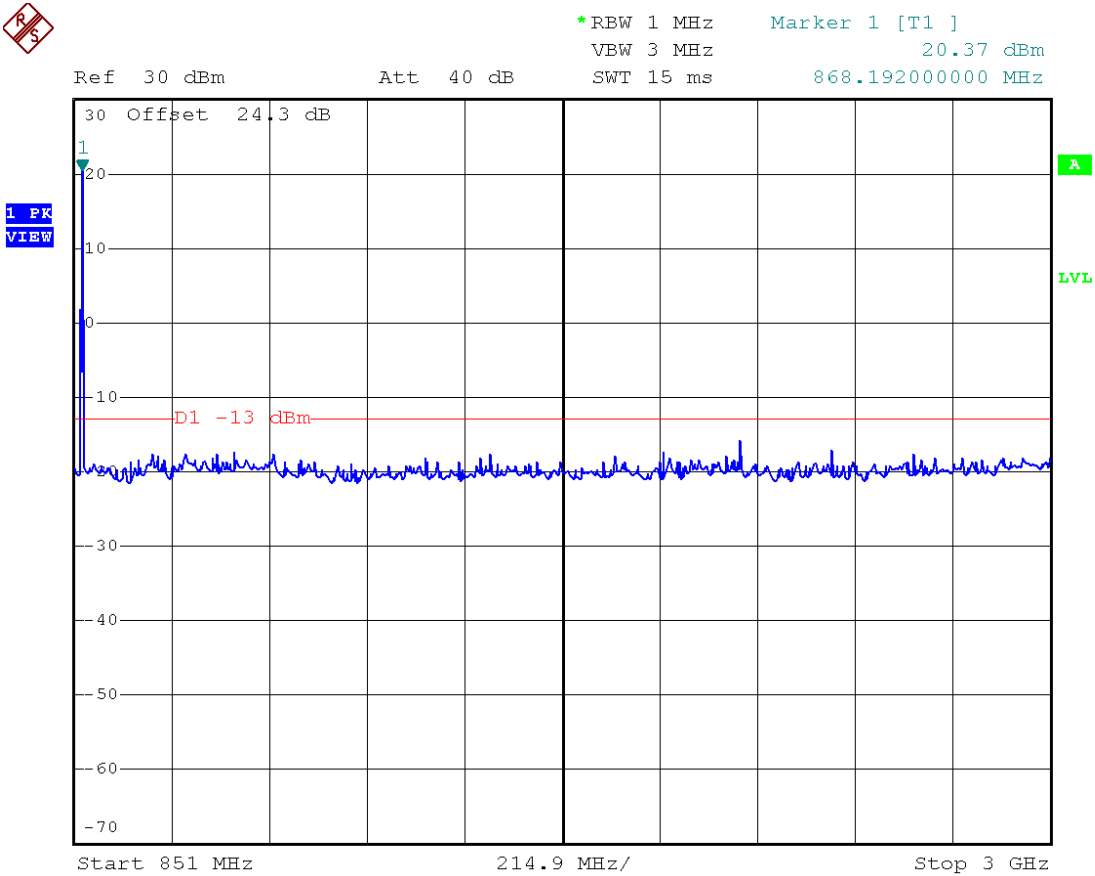
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Hi Channel – 869.0 MHz		



Date: 10.MAY.2005 16:41:12

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

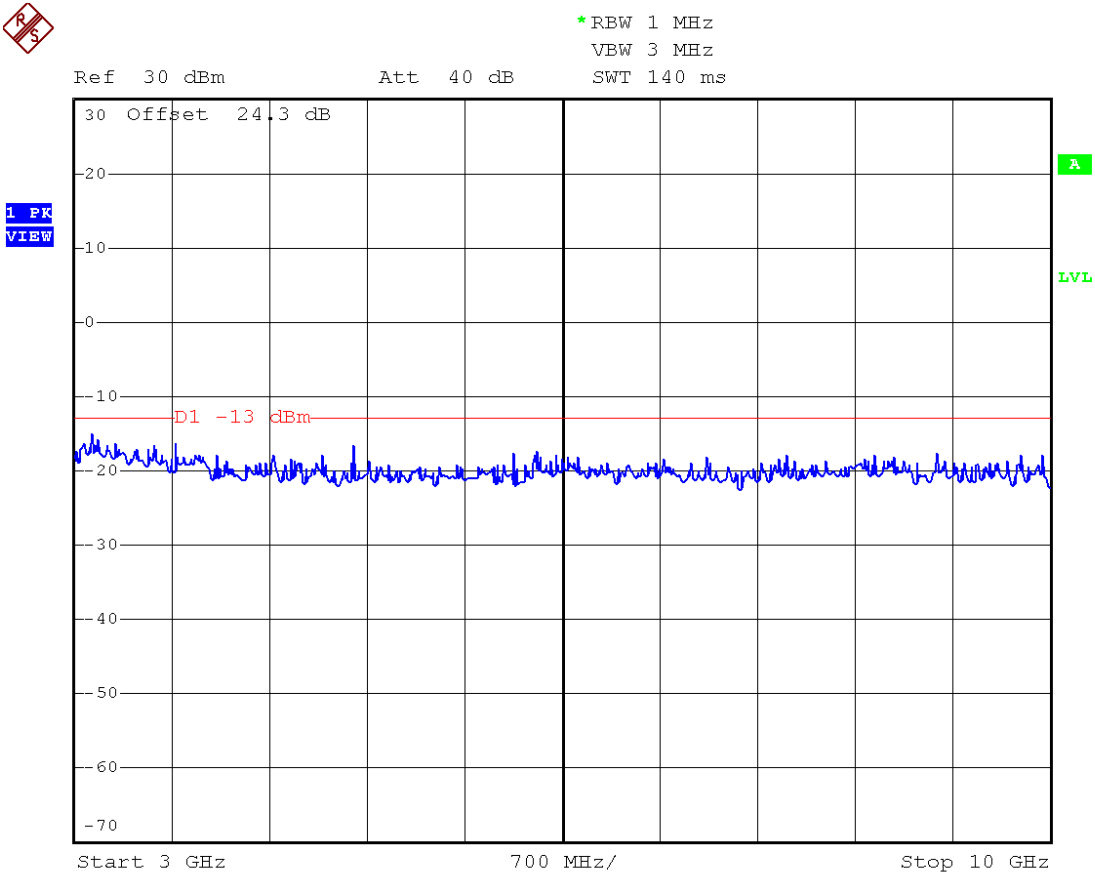
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Hi Channel – 869.0 MHz		



Date: 10.MAY.2005 16:37:27

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

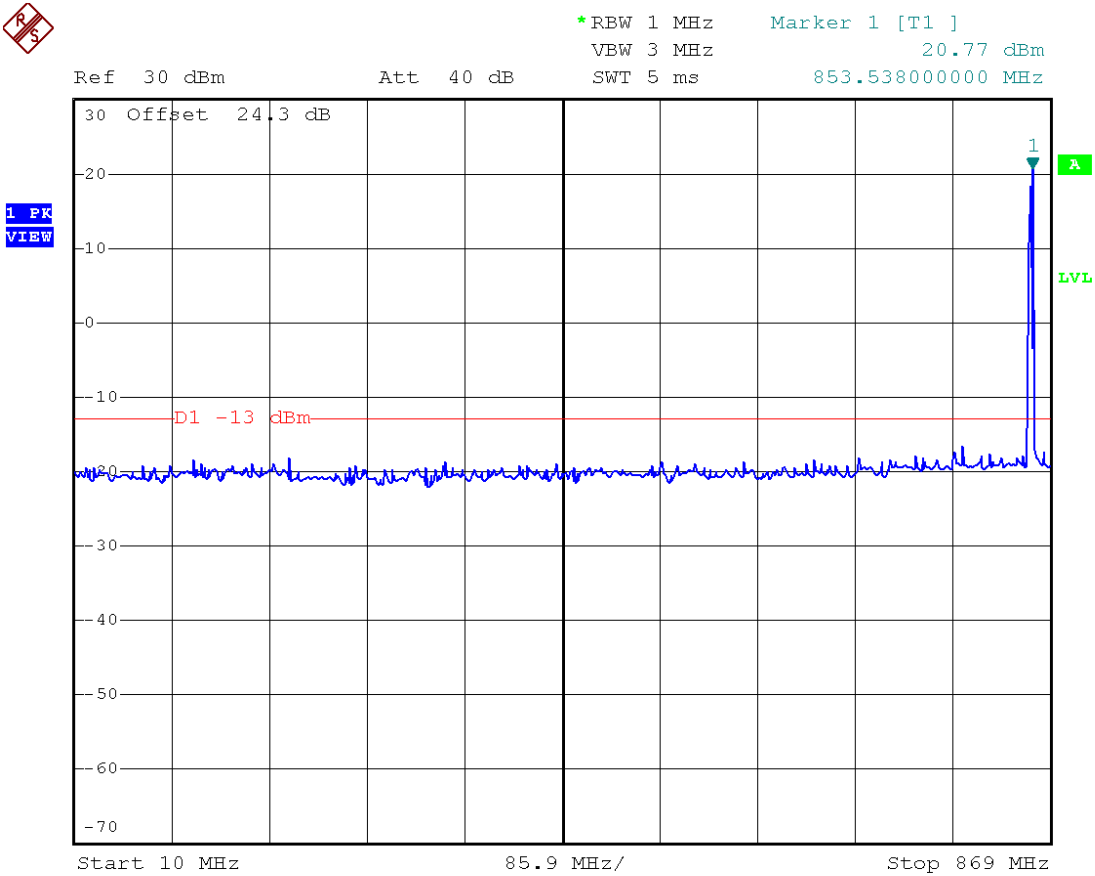
	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date:	9 May 2005
Customer:	Janizary Holdings Inc	Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Model Number:	CBA-HPNEX		
Description:	RF amplifier		
	Downlink – GSM – Hi Channel – 869.0 MHz		



Date: 10.MAY.2005 16:35:53

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Lo Channel – 851.0 MHz		

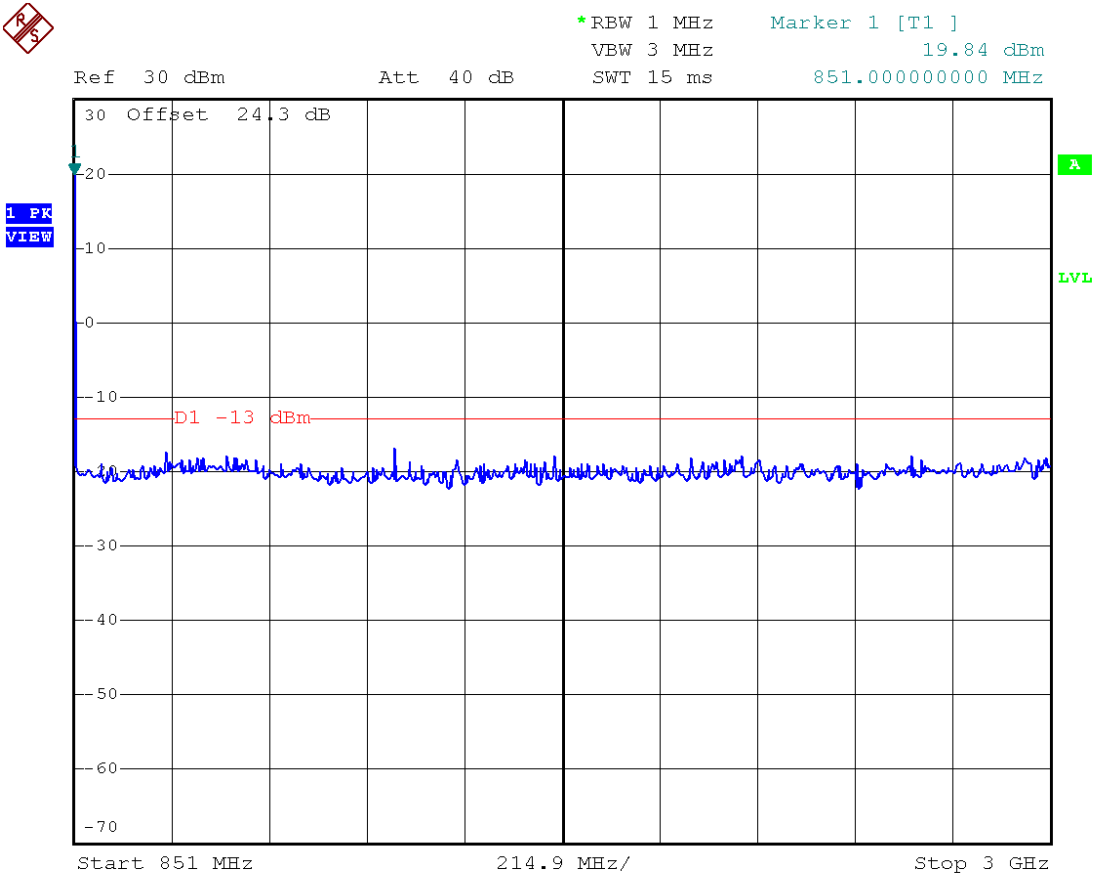


CONDUCTED SPURIOUS TDMA LOW CH.

Date: 10.MAY.2005 15:39:37

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Lo Channel – 851.0 MHz		

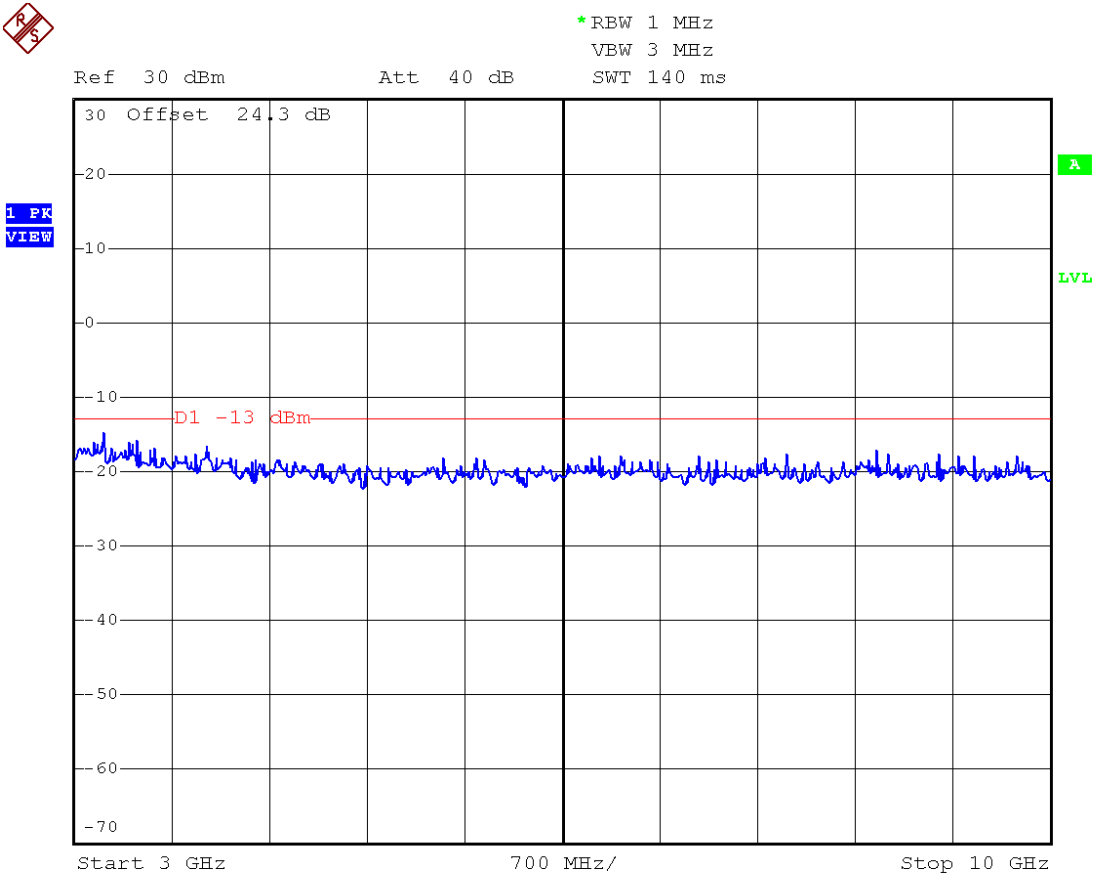


CONDUCTED SPURIOUS TDMA LOW CH.

Date: 10.MAY.2005 15:41:02

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Lo Channel – 851.0 MHz		

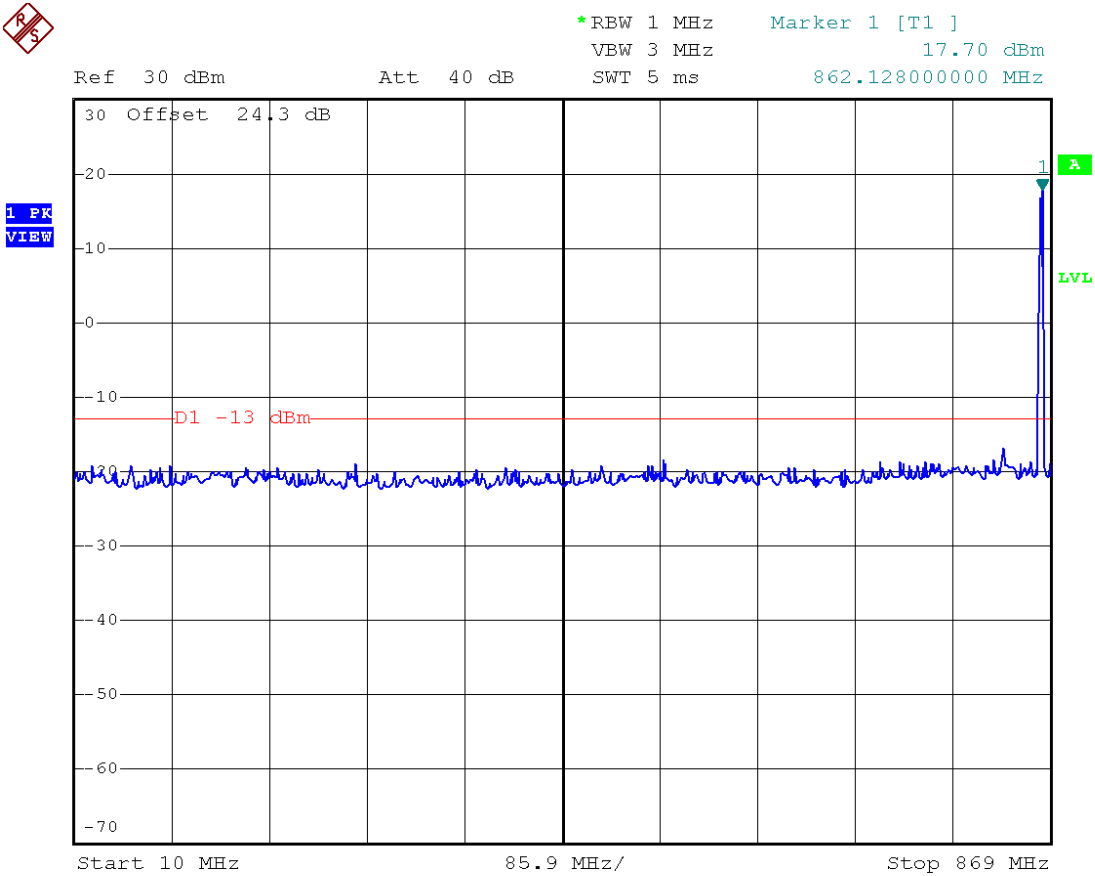


CONDUCTED SPURIOUS TDMA LOW CH.

Date: 10.MAY.2005 15:42:22

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Mid Channel – 860.0 MHz		

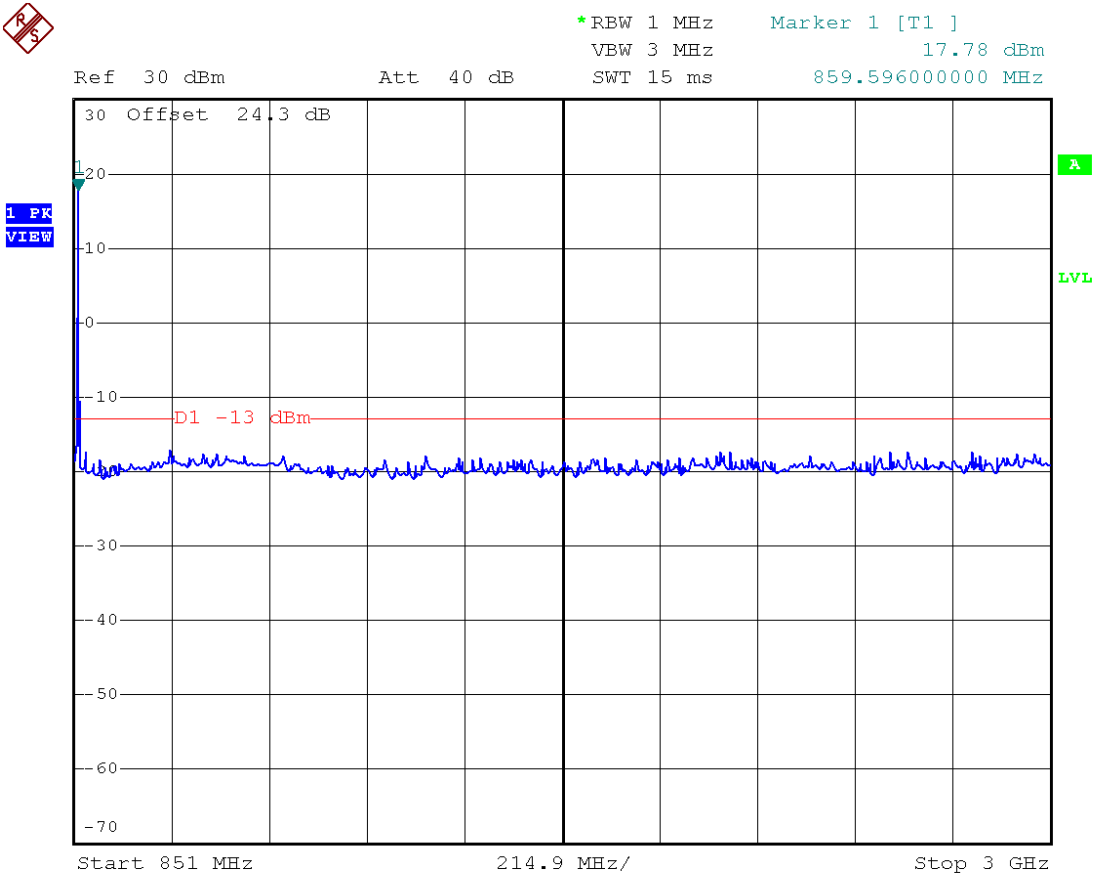


CONDUCTED SPURIOUS TDMA MID CH.

Date: 10.MAY.2005 15:29:22

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Mid Channel – 860.0 MHz		

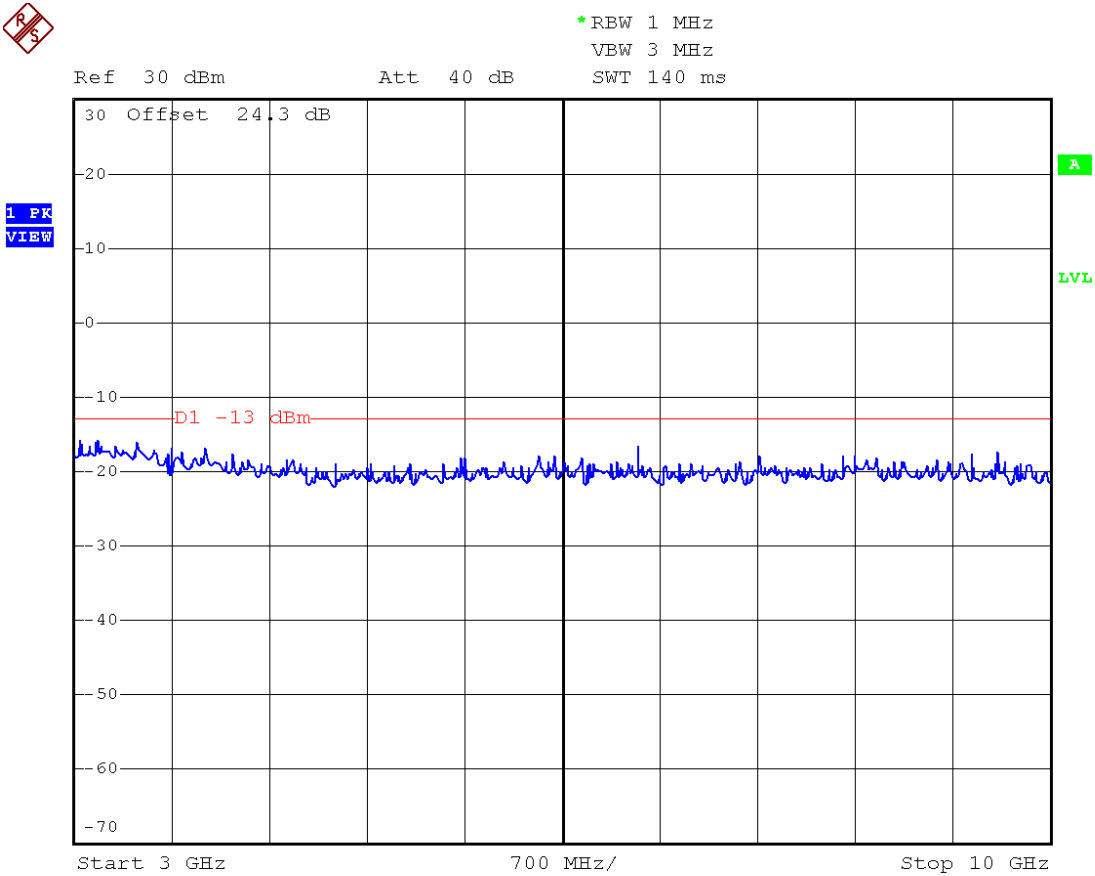


CONDUCTED SPURIOUS TDMA MID CH.

Date: 10.MAY.2005 15:31:36

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier Downlink – TDMA – Mid Channel – 860.0 MHz		

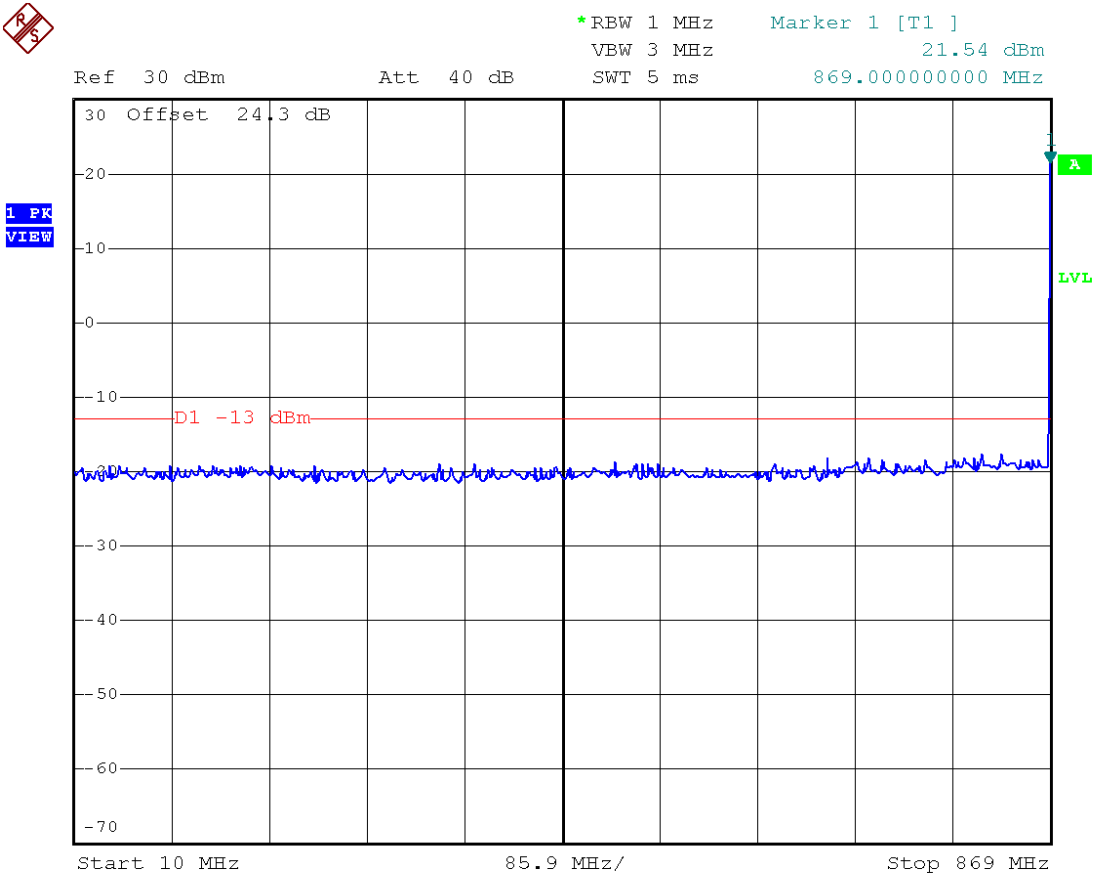


CONDUCTED SPURIOUS TDMA MID CH.

Date: 10.MAY.2005 15:32:46

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Hi Channel – 869.0 MHz		

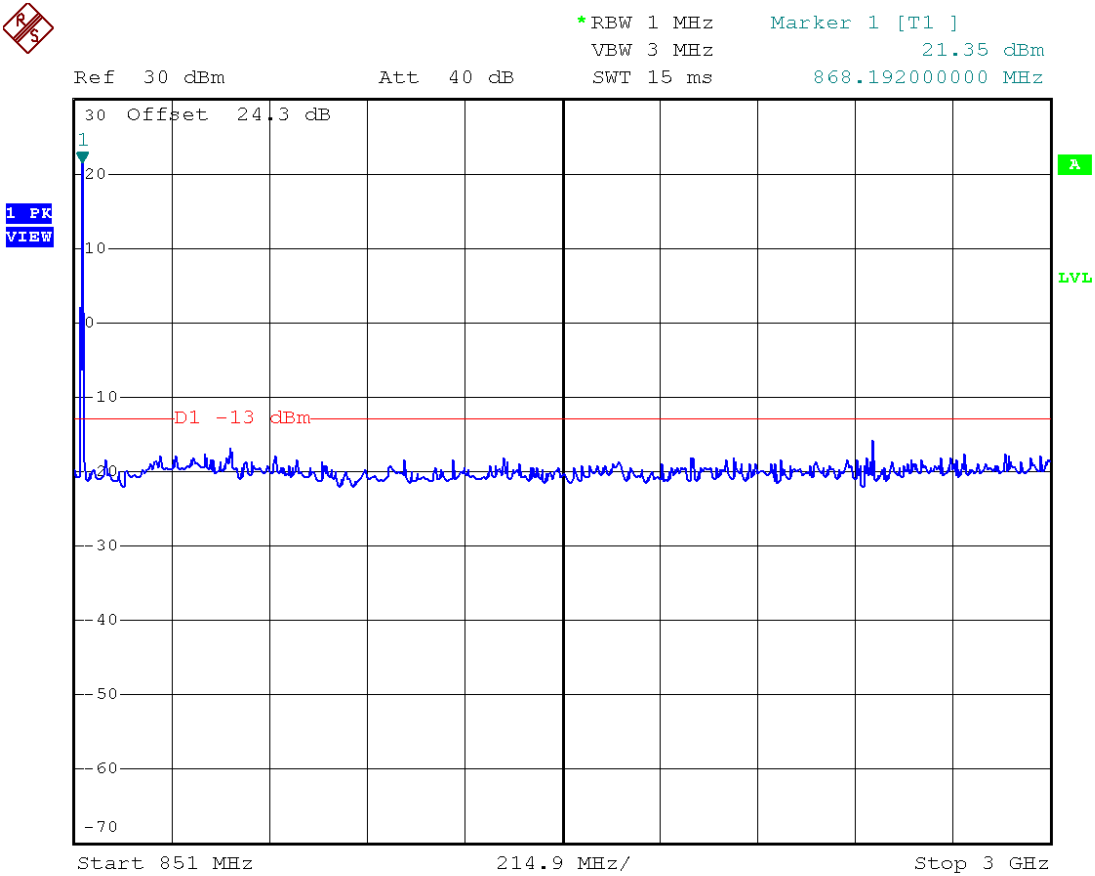


CONDUCTED SPURIOUS TDMA MID CH.

Date: 10.MAY.2005 15:37:38

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Hi Channel – 869.0 MHz		

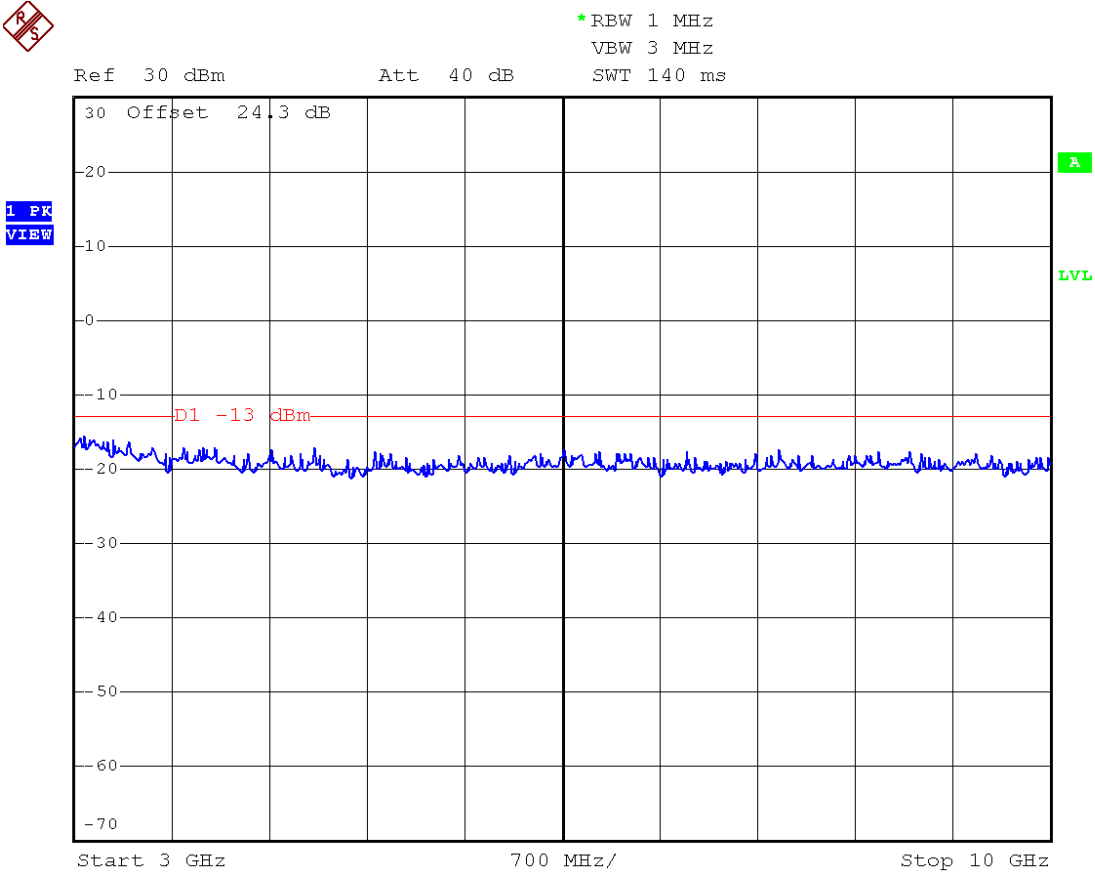


CONDUCTED SPURIOUS TDMA MID CH.

Date: 10.MAY.2005 15:35:57

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNB Job Number:	58130	Date: 9 May 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 90
Customer:	Janizary Holdings Inc		
Model Number:	CBA-HPNEX	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Hi Channel – 869.0 MHz		



CONDUCTED SPURIOUS TDMA MID CH.

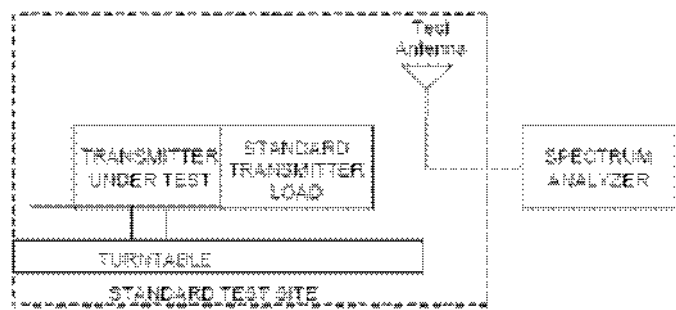
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2.1053 Field Strength of Spurious Radiation (IC RSS-131 Clause 4.4)

Definition:

Radiated spurious emissions are emissions from the equipment when transmitting into a nonradiating load on a frequency or frequencies that are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communications desired.

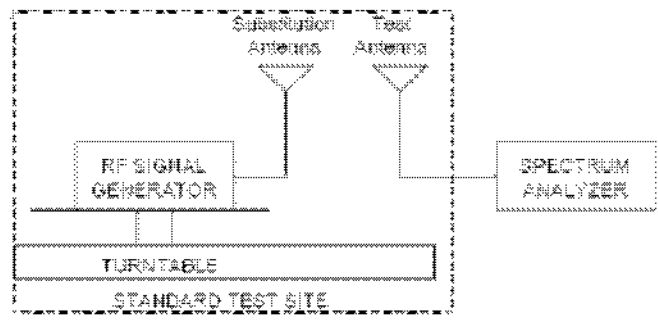
Method of Measurement (Non-Radiating Load) : Per TIA-603-B.



- a) Connect the equipment as illustrated.
- b) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth = 10 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.
 - 2) Video Bandwidth = 300 kHz for spurious emissions below 1 GHz, and 3 MHz for spurious emissions above 1 GHz.
 - 4) Sweep Speed slow enough to maintain measurement calibration.
 - 5) Detector Mode = Positive Peak.
- c) Place the transmitter to be tested on the turntable in the standard 3 meter test site compliant with ANSI C63.4-2001 clause 5.4. The transmitter is transmitting into a nonradiating load that is placed on the turntable. The RF cable to this load should be of minimum length. For transmitters with integral antennas, the tests are to be run with the unit operating into the integral antenna.
- d) For each spurious measurement the test antenna should be adjusted to the correct length for the frequency involved. This length may be determined from a calibration ruler supplied with the equipment. Measurements shall be made from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier, except for the region close to the carrier equal to $\frac{1}{10}$ the test bandwidth.
- e) Key the transmitter.

f) For each spurious frequency, raise and lower the test antenna from 1 m to 4 m to obtain a maximum reading on the spectrum analyzer with the test antenna at horizontal polarity. Then the turntable should be rotated 360° to determine the maximum reading. Repeat this procedure to obtain the highest possible reading. Record this maximum reading.

g) Repeat step f) for each spurious frequency with the test antenna polarized vertically.



h) Reconnect the equipment as illustrated.

i) Keep the spectrum analyzer adjusted as in step b).

j) Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At the lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.

k) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

l) Repeat step k) with both antennas vertically polarized for each spurious frequency.

m) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps k) and l) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and

P_g is the generator output power into the substitution antenna.

n) The P_d levels recorded in step m) are the absolute levels of radiated spurious emissions in dBm. The radiated spurious emissions in dB can be calculated by the following:

$$\text{Radiated spurious emissions (dB)} = \left| 10 \log_{10} \left(\frac{\text{TX power in watts}}{0.001} \right) - \text{the levels in step m)} \right|$$

NOTE: It is permissible to use other antennas provided they can be referenced to a dipole.

Test Results:

All radiated spurious emissions are below the IC/FCC Specifications.

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704				Radiated Spurious			
DNB Job Number:		58130				Date: 11 May 2005		Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Customer:		Janizary Holdings Inc							
Model Number:		CBA-HPNEX				Serial Number:			
Description:		RF amplifier							
		Uplink – Lo Channel – 806.0 MHz							
Harm	Freq	Polar	Mode	Pg(dBm)	Cable	Antenna	Pd(dBm)	Limit	Margin
2	1612	Horz	Peak	-66.98	0.96	7.92	-60.02	-13.00	-47.02
2	1612	Horz	Average	-69.95	0.96	7.92	-62.99	-13.00	-49.99
3	2418	Horz	Peak	-57.58	1.34	8.55	-50.37	-13.00	-37.37
3	2418	Horz	Average	-59.51	1.34	8.55	-52.30	-13.00	-39.30
4	3224	Horz	Peak	-58.23	1.62	8.83	-51.02	-13.00	-38.02
4	3224	Horz	Average	-61.44	1.62	8.83	-54.23	-13.00	-41.23
5	4030	Horz	Peak	-64.10	1.83	9.23	-56.70	-13.00	-43.70
5	4030	Horz	Average	-73.92	1.83	9.23	-66.52	-13.00	-53.52
6	4836	Horz	Peak	-60.43	2.01	10.05	-52.39	-13.00	-39.39
6	4836	Horz	Average	-67.00	2.01	10.05	-58.96	-13.00	-45.96
7	5642	Horz	Peak	-59.05	2.15	10.40	-50.80	-13.00	-37.80
7	5642	Horz	Average	-65.80	2.15	10.40	-57.55	-13.00	-44.55
8	6448	Horz	Peak	-62.99	2.28	10.62	-54.65	-13.00	-41.65
8	6448	Horz	Average	-71.16	2.28	10.62	-62.82	-13.00	-49.82
9	7254	Horz	Peak	-61.55	2.39	10.23	-53.71	-13.00	-40.71
9	7254	Horz	Average	-70.82	2.39	10.23	-62.98	-13.00	-49.98
10	8060	Horz	Peak	-58.55	2.49	10.36	-50.68	-13.00	-37.68
10	8060	Horz	Average	-68.26	2.49	10.36	-60.39	-13.00	-47.39
2	1612	Vert	Peak	-67.44	0.96	7.92	-60.48	-13.00	-47.48
2	1612	Vert	Average	-70.37	0.96	7.92	-63.41	-13.00	-50.41
3	2418	Vert	Peak	-57.39	1.34	8.55	-50.18	-13.00	-37.18
3	2418	Vert	Average	-59.61	1.34	8.55	-52.40	-13.00	-39.40
4	3224	Vert	Peak	-65.07	1.62	8.83	-57.86	-13.00	-44.86
4	3224	Vert	Average	-73.01	1.62	8.83	-65.80	-13.00	-52.80
5	4030	Vert	Peak	-56.91	1.83	9.23	-49.51	-13.00	-36.51
5	4030	Vert	Average	-59.13	1.83	9.23	-51.73	-13.00	-38.73
6	4836	Vert	Peak	-55.32	2.01	10.05	-47.28	-13.00	-34.28
6	4836	Vert	Average	-57.66	2.01	10.05	-49.62	-13.00	-36.62
7	5642	Vert	Peak	-49.24	2.15	10.40	-40.99	-13.00	-27.99
7	5642	Vert	Average	-50.34	2.15	10.40	-42.09	-13.00	-29.09
8	6448	Vert	Peak	-59.23	2.28	10.62	-50.89	-13.00	-37.89
8	6448	Vert	Average	-63.67	2.28	10.62	-55.33	-13.00	-42.33
9	7254	Vert	Peak	-60.10	2.39	10.23	-52.26	-13.00	-39.26
9	7254	Vert	Average	-70.72	2.39	10.23	-62.88	-13.00	-49.88
10	8060	Vert	Peak	-59.83	2.49	10.36	-51.96	-13.00	-38.96
10	8060	Vert	Average	-68.03	2.49	10.36	-60.16	-13.00	-47.16

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704				Radiated Spurious			
DNB Job Number:		58130				Date: 11 May 2005		Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Customer:		Janizary Holdings Inc							
Model Number:		CBA-HPNEX		Serial Number:					
Description:		RF amplifier							
		Uplink – Mid Channel – 815.0 MHz							
Harm	Freq	Polar	Mode	Pg(dBm)	Cable	Antenna	Pd(dBm)	Limit	Margin
2	1630	Horz	Peak	-68.52	0.97	7.91	-61.58	-13.00	-48.58
2	1630	Horz	Average	-72.30	0.97	7.91	-65.36	-13.00	-52.36
3	2445	Horz	Peak	-55.61	1.35	8.60	-48.36	-13.00	-35.36
3	2445	Horz	Average	-57.45	1.35	8.60	-50.20	-13.00	-37.20
4	3260	Horz	Peak	-58.78	1.63	8.84	-51.57	-13.00	-38.57
4	3260	Horz	Average	-62.71	1.63	8.84	-55.50	-13.00	-42.50
5	4075	Horz	Peak	-64.22	1.84	9.28	-56.78	-13.00	-43.78
5	4075	Horz	Average	-74.41	1.84	9.28	-66.97	-13.00	-53.97
6	4890	Horz	Peak	-58.60	2.02	10.10	-50.52	-13.00	-37.52
6	4890	Horz	Average	-63.66	2.02	10.10	-55.58	-13.00	-42.58
7	5705	Horz	Peak	-59.22	2.16	10.42	-50.96	-13.00	-37.96
7	5705	Horz	Average	-64.00	2.16	10.42	-55.74	-13.00	-42.74
8	6520	Horz	Peak	-61.13	2.29	10.34	-53.08	-13.00	-40.08
8	6520	Horz	Average	-67.66	2.29	10.34	-59.61	-13.00	-46.61
9	7335	Horz	Peak	-61.13	2.40	10.23	-53.30	-13.00	-40.30
9	7335	Horz	Average	-70.69	2.40	10.23	-62.86	-13.00	-49.86
10	8150	Horz	Peak	-59.87	2.50	10.46	-51.91	-13.00	-38.91
10	8150	Horz	Average	-68.01	2.50	10.46	-60.05	-13.00	-47.05
2	1630	Vert	Peak	-58.74	0.97	7.91	-51.80	-13.00	-38.80
2	1630	Vert	Average	-58.84	0.97	7.91	-51.90	-13.00	-38.90
3	2445	Vert	Peak	-68.36	1.35	8.60	-61.11	-13.00	-48.11
3	2445	Vert	Average	-79.35	1.35	8.60	-72.10	-13.00	-59.10
4	3260	Vert	Peak	-59.18	1.63	8.84	-51.97	-13.00	-38.97
4	3260	Vert	Average	-63.02	1.63	8.84	-55.81	-13.00	-42.81
5	4075	Vert	Peak	-61.13	1.84	9.28	-53.69	-13.00	-40.69
5	4075	Vert	Average	-66.05	1.84	9.28	-58.61	-13.00	-45.61
6	4890	Vert	Peak	-56.51	2.02	10.10	-48.43	-13.00	-35.43
6	4890	Vert	Average	-59.18	2.02	10.10	-51.10	-13.00	-38.10
7	5705	Vert	Peak	-52.01	2.16	10.42	-43.75	-13.00	-30.75
7	5705	Vert	Average	-53.22	2.16	10.42	-44.96	-13.00	-31.96
8	6520	Vert	Peak	-60.00	2.29	10.34	-51.95	-13.00	-38.95
8	6520	Vert	Average	-66.21	2.29	10.34	-58.16	-13.00	-45.16
9	7335	Vert	Peak	-60.78	2.40	10.23	-52.95	-13.00	-39.95
9	7335	Vert	Average	-70.18	2.40	10.23	-62.35	-13.00	-49.35
10	8150	Vert	Peak	-55.55	2.50	10.46	-47.59	-13.00	-34.59
10	8150	Vert	Average	-61.40	2.50	10.46	-53.44	-13.00	-40.44

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704				Radiated Spurious			
DNB Job Number:		58130				Date: 11 May 2005		Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Customer:		Janizary Holdings Inc							
Model Number:		CBA-HPNEX		Serial Number:					
Description:		RF amplifier							
		Uplink – Hi Channel – 824.0 MHz							
Harm	Freq	Polar	Mode	Pg(dBm)	Cable	Antenna	Pd(dBm)	Limit	Margin
2	1648	Horz	Peak	-69.92	0.98	7.90	-63.00	-13.00	-50.00
2	1648	Horz	Average	-74.32	0.98	7.90	-67.40	-13.00	-54.40
3	2472	Horz	Peak	-60.01	1.36	8.65	-52.72	-13.00	-39.72
3	2472	Horz	Average	-62.34	1.36	8.65	-55.05	-13.00	-42.05
4	3296	Horz	Peak	-56.68	1.64	8.86	-49.46	-13.00	-36.46
4	3296	Horz	Average	-59.18	1.64	8.86	-51.96	-13.00	-38.96
5	4120	Horz	Peak	-64.42	1.85	9.33	-56.94	-13.00	-43.94
5	4120	Horz	Average	-74.83	1.85	9.33	-67.35	-13.00	-54.35
6	4944	Horz	Peak	-64.75	2.03	10.15	-56.63	-13.00	-43.63
6	4944	Horz	Average	-73.74	2.03	10.15	-65.62	-13.00	-52.62
7	5768	Horz	Peak	-60.16	2.17	10.44	-51.89	-13.00	-38.89
7	5768	Horz	Average	-66.14	2.17	10.44	-57.87	-13.00	-44.87
8	6592	Horz	Peak	-62.49	2.30	10.32	-54.47	-13.00	-41.47
8	6592	Horz	Average	-70.75	2.30	10.32	-62.73	-13.00	-49.73
9	7416	Horz	Peak	-60.68	2.41	10.24	-52.85	-13.00	-39.85
9	7416	Horz	Average	-70.75	2.41	10.24	-62.92	-13.00	-49.92
10	8240	Horz	Peak	-58.89	2.52	10.55	-50.86	-13.00	-37.86
10	8240	Horz	Average	-68.66	2.52	10.55	-60.63	-13.00	-47.63
2	1648	Vert	Peak	-61.11	0.98	7.90	-54.19	-13.00	-41.19
2	1648	Vert	Average	-62.40	0.98	7.90	-55.48	-13.00	-42.48
3	2472	Vert	Peak	-59.53	1.36	8.65	-52.24	-13.00	-39.24
3	2472	Vert	Average	-62.15	1.36	8.65	-54.86	-13.00	-41.86
4	3296	Vert	Peak	-63.01	1.64	8.86	-55.79	-13.00	-42.79
4	3296	Vert	Average	-68.83	1.64	8.86	-61.61	-13.00	-48.61
5	4120	Vert	Peak	-59.31	1.85	9.33	-51.83	-13.00	-38.83
5	4120	Vert	Average	-63.72	1.85	9.33	-56.24	-13.00	-43.24
6	4944	Vert	Peak	-57.79	2.03	10.15	-49.67	-13.00	-36.67
6	4944	Vert	Average	-61.08	2.03	10.15	-52.96	-13.00	-39.96
7	5768	Vert	Peak	-58.11	2.17	10.44	-49.84	-13.00	-36.84
7	5768	Vert	Average	-61.38	2.17	10.44	-53.11	-13.00	-40.11
8	6592	Vert	Peak	-56.63	2.30	10.32	-48.61	-13.00	-35.61
8	6592	Vert	Average	-60.18	2.30	10.32	-52.16	-13.00	-39.16
9	7416	Vert	Peak	-61.08	2.41	10.24	-53.25	-13.00	-40.25
9	7416	Vert	Average	-70.51	2.41	10.24	-62.68	-13.00	-49.68
10	8240	Vert	Peak	-58.22	2.52	10.55	-50.19	-13.00	-37.19
10	8240	Vert	Average	-65.97	2.52	10.55	-57.94	-13.00	-44.94

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, DOWNLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704				Radiated Spurious			
DNB Job Number:		58130				Date: 12 May 2005		Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Customer:		Janizary Holdings Inc							
Model Number:		CBA-HPNEX		Serial Number:					
Description:		RF amplifier							
		Downlink – Lo Channel – 851.0 MHz							
Harm	Freq	Polar	Mode	Pg(dBm)	Cable	Antenna	Pd(dBm)	Limit	Margin
2	1702	Horz	Peak	-64.36	1.01	7.87	-57.50	-13.00	-44.50
2	1702	Horz	Average	-66.41	1.01	7.87	-59.55	-13.00	-46.55
3	2553	Horz	Peak	-58.59	1.40	8.70	-51.29	-13.00	-38.29
3	2553	Horz	Average	-60.74	1.40	8.70	-53.44	-13.00	-40.44
4	3404	Horz	Peak	-60.58	1.67	8.92	-53.33	-13.00	-40.33
4	3404	Horz	Average	-64.97	1.67	8.92	-57.72	-13.00	-44.72
5	4255	Horz	Peak	-63.72	1.88	9.48	-56.12	-13.00	-43.12
5	4255	Horz	Average	-70.65	1.88	9.48	-63.05	-13.00	-50.05
6	5106	Horz	Peak	-64.08	2.06	10.23	-55.91	-13.00	-42.91
6	5106	Horz	Average	-73.22	2.06	10.23	-65.05	-13.00	-52.05
7	5957	Horz	Peak	-55.56	2.21	10.49	-47.28	-13.00	-34.28
7	5957	Horz	Average	-58.62	2.21	10.49	-50.34	-13.00	-37.34
8	6808	Horz	Peak	-62.38	2.33	10.25	-54.46	-13.00	-41.46
8	6808	Horz	Average	-71.44	2.33	10.25	-63.52	-13.00	-50.52
9	7659	Horz	Peak	-60.98	2.45	10.27	-53.16	-13.00	-40.16
9	7659	Horz	Average	-70.66	2.45	10.27	-62.84	-13.00	-49.84
10	8510	Horz	Peak	-59.94	2.55	10.82	-51.67	-13.00	-38.67
10	8510	Horz	Average	-68.63	2.55	10.82	-60.36	-13.00	-47.36
2	1702	Vert	Peak	-64.46	1.01	7.87	-57.60	-13.00	-44.60
2	1702	Vert	Average	-66.65	1.01	7.87	-59.79	-13.00	-46.79
3	2553	Vert	Peak	-57.90	1.40	8.70	-50.60	-13.00	-37.60
3	2553	Vert	Average	-59.44	1.40	8.70	-52.14	-13.00	-39.14
4	3404	Vert	Peak	-58.51	1.67	8.92	-51.26	-13.00	-38.26
4	3404	Vert	Average	-61.83	1.67	8.92	-54.58	-13.00	-41.58
5	4255	Vert	Peak	-56.89	1.88	9.48	-49.29	-13.00	-36.29
5	4255	Vert	Average	-59.26	1.88	9.48	-51.66	-13.00	-38.66
6	5106	Vert	Peak	-58.85	2.06	10.23	-50.68	-13.00	-37.68
6	5106	Vert	Average	-63.08	2.06	10.23	-54.91	-13.00	-41.91
7	5957	Vert	Peak	-53.27	2.21	10.49	-44.99	-13.00	-31.99
7	5957	Vert	Average	-55.07	2.21	10.49	-46.79	-13.00	-33.79
8	6808	Vert	Peak	-61.03	2.33	10.25	-53.11	-13.00	-40.11
8	6808	Vert	Average	-68.56	2.33	10.25	-60.64	-13.00	-47.64
9	7659	Vert	Peak	-60.74	2.45	10.27	-52.92	-13.00	-39.92
9	7659	Vert	Average	-70.75	2.45	10.27	-62.93	-13.00	-49.93
10	8510	Vert	Peak	-58.59	2.55	10.82	-50.32	-13.00	-37.32
10	8510	Vert	Average	-68.56	2.55	10.82	-60.29	-13.00	-47.29

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, DOWNLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704				Radiated Spurious			
DNB Job Number:		58130				Date: 12 May 2005		Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Customer:		Janizary Holdings Inc							
Model Number:		CBA-HPNEX		Serial Number:					
Description:		RF amplifier							
		Downlink – Mid Channel – 860.0 MHz							
Harm	Freq	Polar	Mode	Pg(dBm)	Cable	Antenna	Pd(dBm)	Limit	Margin
2	1720	Horz	Peak	-58.16	1.02	7.86	-51.32	-13.00	-38.32
2	1720	Horz	Average	-59.44	1.02	7.86	-52.60	-13.00	-39.60
3	2580	Horz	Peak	-63.69	1.41	8.70	-56.40	-13.00	-43.40
3	2580	Horz	Average	-67.92	1.41	8.70	-60.63	-13.00	-47.63
4	3440	Horz	Peak	-58.26	1.68	8.94	-51.00	-13.00	-38.00
4	3440	Horz	Average	-61.07	1.68	8.94	-53.81	-13.00	-40.81
5	4300	Horz	Peak	-53.46	1.89	9.52	-45.83	-13.00	-32.83
5	4300	Horz	Average	-55.53	1.89	9.52	-47.90	-13.00	-34.90
6	5160	Horz	Peak	-59.87	2.07	10.25	-51.69	-13.00	-38.69
6	5160	Horz	Average	-65.03	2.07	10.25	-56.85	-13.00	-43.85
7	6020	Horz	Peak	-56.11	2.22	10.49	-47.84	-13.00	-34.84
7	6020	Horz	Average	-59.05	2.22	10.49	-50.78	-13.00	-37.78
8	6880	Horz	Peak	-62.33	2.34	10.23	-54.44	-13.00	-41.44
8	6880	Horz	Average	-71.22	2.34	10.23	-63.33	-13.00	-50.33
9	7740	Horz	Peak	-59.80	2.46	10.28	-51.98	-13.00	-38.98
9	7740	Horz	Average	-68.95	2.46	10.28	-61.13	-13.00	-48.13
10	8600	Horz	Peak	-57.54	2.56	10.91	-49.19	-13.00	-36.19
10	8600	Horz	Average	-65.66	2.56	10.91	-57.31	-13.00	-44.31
2	1720	Vert	Peak	-55.57	1.02	7.86	-48.73	-13.00	-35.73
2	1720	Vert	Average	-56.45	1.02	7.86	-49.61	-13.00	-36.61
3	2580	Vert	Peak	-54.85	1.41	8.70	-47.56	-13.00	-34.56
3	2580	Vert	Average	-56.03	1.41	8.70	-48.74	-13.00	-35.74
4	3440	Vert	Peak	-59.18	1.68	8.94	-51.92	-13.00	-38.92
4	3440	Vert	Average	-62.99	1.68	8.94	-55.73	-13.00	-42.73
5	4300	Vert	Peak	-47.28	1.89	9.52	-39.65	-13.00	-26.65
5	4300	Vert	Average	-47.88	1.89	9.52	-40.25	-13.00	-27.25
6	5160	Vert	Peak	-48.90	2.07	10.25	-40.72	-13.00	-27.72
6	5160	Vert	Average	-49.87	2.07	10.25	-41.69	-13.00	-28.69
7	6020	Vert	Peak	-49.62	2.22	10.49	-41.35	-13.00	-28.35
7	6020	Vert	Average	-50.86	2.22	10.49	-42.59	-13.00	-29.59
8	6880	Vert	Peak	-57.40	2.34	10.23	-49.51	-13.00	-36.51
8	6880	Vert	Average	-62.14	2.34	10.23	-54.25	-13.00	-41.25
9	7740	Vert	Peak	-60.42	2.46	10.28	-52.60	-13.00	-39.60
9	7740	Vert	Average	-69.08	2.46	10.28	-61.26	-13.00	-48.26
10	8600	Vert	Peak	-55.74	2.56	10.91	-47.39	-13.00	-34.39
10	8600	Vert	Average	-61.76	2.56	10.91	-53.41	-13.00	-40.41

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, DOWNLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704				Radiated Spurious			
DNB Job Number:		58130				Date: 12 May 2005		Conformance Standards [X] IC RSS-131 [X] FCC Part 90	
Customer:		Janizary Holdings Inc							
Model Number:		CBA-HPNEX			Serial Number:				
Description:		RF amplifier							
		Downlink – Hi Channel – 869.0 MHz							
Harm	Freq	Polar	Mode	Pg(dBm)	Cable	Antenna	Pd(dBm)	Limit	Margin
2	1738	Horz	Peak	-67.21	1.03	7.85	-60.39	-13.00	-47.39
2	1738	Horz	Average	-69.86	1.03	7.85	-63.04	-13.00	-50.04
3	2607	Horz	Peak	-66.75	1.42	8.70	-59.47	-13.00	-46.47
3	2607	Horz	Average	-73.48	1.42	8.70	-66.20	-13.00	-53.20
4	3476	Horz	Peak	-63.13	1.69	8.96	-55.86	-13.00	-42.86
4	3476	Horz	Average	-69.58	1.69	8.96	-62.31	-13.00	-49.31
5	4345	Horz	Peak	-62.44	1.90	9.57	-54.77	-13.00	-41.77
5	4345	Horz	Average	-68.21	1.90	9.57	-60.54	-13.00	-47.54
6	5214	Horz	Peak	-61.12	2.08	10.27	-52.93	-13.00	-39.93
6	5214	Horz	Average	-66.01	2.08	10.27	-57.82	-13.00	-44.82
7	6083	Horz	Peak	-55.04	2.23	10.47	-46.80	-13.00	-33.80
7	6083	Horz	Average	-57.04	2.23	10.47	-48.80	-13.00	-35.80
8	6952	Horz	Peak	-62.43	2.35	10.21	-54.57	-13.00	-41.57
8	6952	Horz	Average	-71.60	2.35	10.21	-63.74	-13.00	-50.74
9	7821	Horz	Peak	-61.11	2.47	10.28	-53.30	-13.00	-40.30
9	7821	Horz	Average	-70.39	2.47	10.28	-62.58	-13.00	-49.58
10	8690	Horz	Peak	-58.85	2.57	11.00	-50.42	-13.00	-37.42
10	8690	Horz	Average	-68.53	2.57	11.00	-60.10	-13.00	-47.10
2	1738	Vert	Peak	-56.62	1.03	7.85	-49.80	-13.00	-36.80
2	1738	Vert	Average	-57.32	1.03	7.85	-50.50	-13.00	-37.50
3	2607	Vert	Peak	-59.55	1.42	8.70	-52.27	-13.00	-39.27
3	2607	Vert	Average	-61.68	1.42	8.70	-54.40	-13.00	-41.40
4	3476	Vert	Peak	-62.24	1.69	8.96	-54.97	-13.00	-41.97
4	3476	Vert	Average	-69.82	1.69	8.96	-62.55	-13.00	-49.55
5	4345	Vert	Peak	-46.70	1.90	9.57	-39.03	-13.00	-26.03
5	4345	Vert	Average	-47.26	1.90	9.57	-39.59	-13.00	-26.59
6	5214	Vert	Peak	-63.60	2.08	10.27	-55.41	-13.00	-42.41
6	5214	Vert	Average	-71.59	2.08	10.27	-63.40	-13.00	-50.40
7	6083	Vert	Peak	-51.19	2.23	10.47	-42.95	-13.00	-29.95
7	6083	Vert	Average	-52.43	2.23	10.47	-44.19	-13.00	-31.19
8	6952	Vert	Peak	-61.34	2.35	10.21	-53.48	-13.00	-40.48
8	6952	Vert	Average	-69.23	2.35	10.21	-61.37	-13.00	-48.37
9	7821	Vert	Peak	-61.51	2.47	10.28	-53.70	-13.00	-40.70
9	7821	Vert	Average	-70.34	2.47	10.28	-62.53	-13.00	-49.53
10	8690	Vert	Peak	-58.65	2.57	11.00	-50.22	-13.00	-37.22
10	8690	Vert	Average	-68.28	2.57	11.00	-59.85	-13.00	-46.85

CONDUCTED EMISSIONS

Definition:

Emissions which emanate along the power lines from the EUT.

Test Method: FCC Part 15 Class B (CISPR 22)

To measure conducted emissions, the EUT was set upon a wooden table in the shielded enclosure. AC power was fed into the EUT from the Artificial Mains Network. With the Artificial Mains Network connected to an HP 8568B Spectrum Analyzer, and using the HP 9825 Computer/Controller (or equivalent) and the HP 85864B EMI Measurement Software, the spectrum was searched from 0.15 - 30 MHz for emissions emanating from the EUT.

Test Results: All readings were below the expectable limit.

Figure 9: Conducted Emissions.

CONDUCTED EMISSIONS - Line

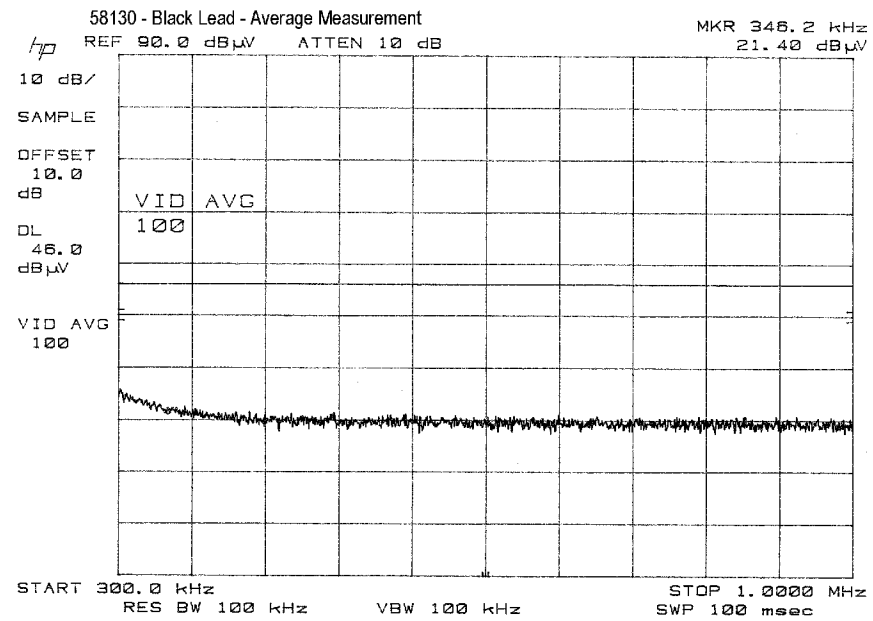
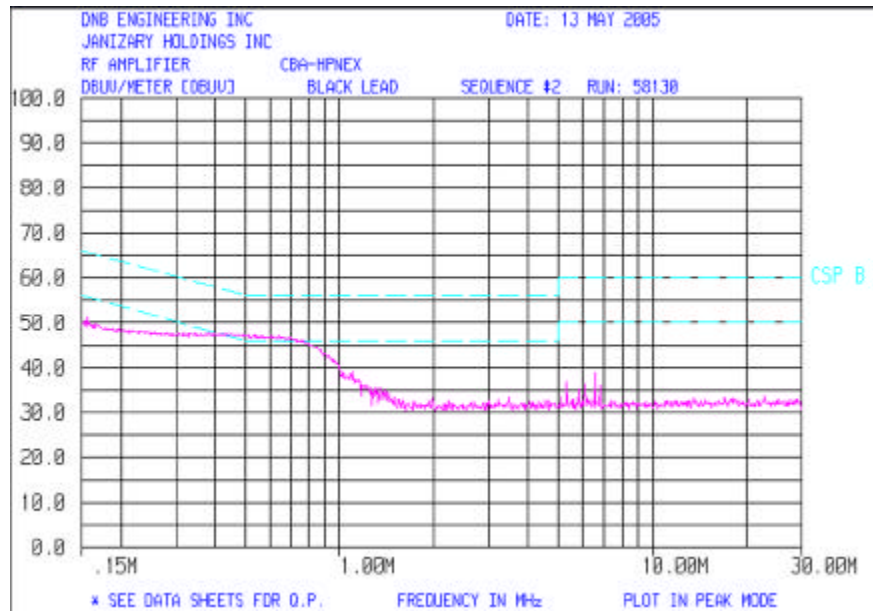
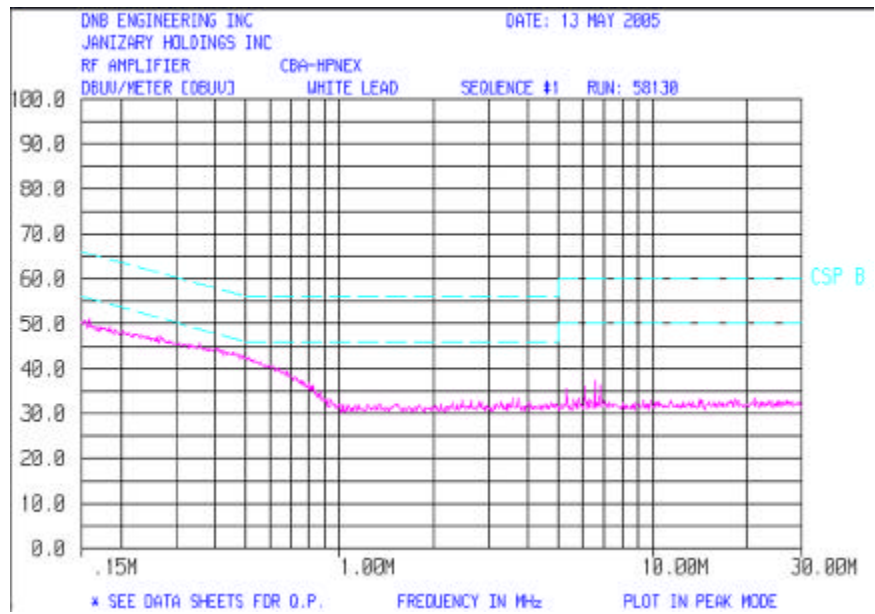


Figure 9: Conducted Emissions
CONDUCTED EMISSIONS - Neutral



RADIATED EMISSIONS

Definition:

Emissions which emanate from the EUT.

Test Method: FCC Part 15 Class B (CISPR 22)

To measure radiated emissions, the EUT was set up on the 10 meter open air test site. The EUT is placed on a wooden Table, which rests upon a wooden turntable. The top of the table is one meter above the ground, and the turntable can be rotated 360 degrees. For each frequency measured, the antenna is raised and lowered for both horizontal and vertical polarities to obtain the maximum reading on the analyzer. The turntable is also rotated throughout the 360 degrees in azimuth to determine the position of the maximum emissions. The applicable frequency range is searched using the antennas listed below. The respective antenna and preamplifier were connected to an HP 8568B Spectrum Analyzer. Preamplifiers were used for all ranges to achieve the needed dynamic range.

Test Results:

All readings were below the expectable limit.

FIGURE 10: RADIATED EMISSIONS.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Radiated Emissions	
DNB Job Number:	58130	Date:	11 May 2005	Conformance Standards [X] FCC Part 15 [X] IC Cispr 22
Customer:	Janizary Holdings Inc			
Model Number:	CBA-HPNEX	Serial Number:		
Description:	RF amplifier			

		Correction Factors					dBuV/m			uV/m			Positions			
					Amp				Delta					Tbl		
32.913	29.0	12.1	0.0	0.6	-24.3	0.0	17.4	30.0	-13.0	7	32	-25	PK	0	H	1.96
40.335	26.0	12.4	0.0	0.7	-24.3	0.0	14.8	30.0	-15.0	5	32	-27	PK	0	H	1.96
111.34	28.3	10.2	0.0	1.4	-24.2	0.0	15.7	30.0	-14.0	6	32	-26	PK	0	H	3.31
219.34	25.4	14.6	0.0	2.2	-24.2	0.0	18.0	30.0	-12.0	8	32	-24	PK	0	H	3.31
226.64	28.3	0.0	12.4	2.2	-24.2	0.0	18.7	30.0	-11.0	9	32	-23	PK	0	H	4.00
296.14	25.0	0.0	13.6	2.5	-24.4	0.0	16.7	37.0	-20.0	7	71	-64	PK	0	H	4.00
503.14	28.6	0.0	18.2	3.7	-24.8	0.0	25.7	37.0	-11.0	19	71	-52	PK	0	H	4.00
902.74	23.6	0.0	23.2	5.5	-25.2	0.0	27.1	37.0	-9.9	23	71	-48	PK	0	H	2.81
30.627	26.0	12.5	0.0	0.6	-24.4	0.0	14.7	30.0	-15.3	5	32	-27	PK	0	V	1.00
40.898	31.5	12.2	0.0	0.7	-24.3	0.0	20.1	30.0	-9.9	10	32	-22	PK	0	V	1.99
112.9	27.7	10.4	0.0	1.4	-24.2	0.0	15.3	30.0	-15.0	6	32	-26	PK	0	V	1.99
117.4	28.5	10.8	0.0	1.5	-24.2	0.0	16.6	30.0	-13.0	7	32	-25	PK	0	V	1.99
224.6	23.7	14.8	0.0	2.2	-24.2	0.0	16.5	30.0	-13.0	7	32	-25	PK	0	V	1.99
226.14	26.2	0.0	12.4	2.2	-24.2	0.0	16.6	30.0	-13.0	7	32	-25	PK	0	V	1.01
309.14	32.5	0.0	14.0	2.6	-24.4	0.0	24.7	37.0	-12.0	17	71	-54	PK	0	V	1.01
503.02	29.5	0.0	18.2	3.7	-24.8	0.0	26.6	37.0	-10.0	21	71	-50	PK	0	V	1.01
905.64	18.9	0.0	23.2	5.5	-25.2	0.0	22.4	37.0	-15.0	13	71	-58	PK	0	V	1.01

2.1055 Measurement of Frequency Stability (IC RSS-131)

The EUT is a power amplifier and contains no circuitry for generating or stabilizing the RF signal. The driver will be responsible for this task.

2.1057 Frequency Spectrum to be Investigated

The Frequency was searched from the lowest radio frequency generated in the equipment through the 10th harmonic of the carrier frequency.

RF Exposure – MPE Calculations - Uplink

Input

Transmitter Power: 439 mW

Antenna Gain: 12 dB

Cable loss: 1.5 dB @ 806 – 869 MHz

Frequency range: 806-869 MHz

Assumptions

1. A single $\frac{1}{4}$ wavelength radiating antenna is assumed.
2. Closest exposure distance is assumed to be 30 cm

RF Exposure – MPE Calculations - Uplink

Calculations

The following results shall be assumed to be accurate for the far-field only. These predictions will over-estimate power density in the near-field. Based on the use of a $\frac{1}{4}$ wavelength radiator, a distance of 30 cm is considered to be in the far-field for all cases.

For the purposes of these calculations a distance of 30cm was used. The actual distance as specified in the user manual is 400cm or 4 meters. 30cm represents the worst case configuration assuming an incorrect installation.

$$S = PG/4*\pi*R^2$$

@ 806 – 869 MHz

P is 439 mW

G is 10.5 dB (Antenna gain – loss) or $10^{(10.5/10)}$ or 11.22

R is 30 cm

$$\underline{S = 0.436 \text{ mW/cm}^2}$$

For Occupational/Controlled Exposure

From 300 to 1500 MHz, power density limit is f/300 mW/cm²

@ 806 MHz, power density limit is **2.687 mW/cm² for 6 minutes.**

For General Population/Uncontrolled Exposure

From 300 to 1500 MHz, power density limit is f/1500 mW/cm²

@ 806 MHz, Power density limit is **0.537 mW/cm² for 30 minutes.**

Conclusion: Meets MPE limits

Appendix A

Photographs

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PHOTOS: RADIATED EMISSIONS: UNINTENTIONAL RADIATOR

Notes:



PHOTOS: RADIATED SPURIOUS EMISSIONS: LOG

Notes:



PHOTOS: RADIATED SPURIOUS EMISSIONS : DRG HORN

Notes:



**PHOTO: RF POWER OUTPUT, EMISSIONS LIMITATIONS
GSM/TDMA, OCCUPIED BANDWIDTH
GSM/TDMA, CONDUCTED SPURIOUS
EMISSIONS AT ANTENNA TERMINALS**

Notes:

