



EMC Test Data

Client:	Repeater Technologies	Job Number:	J43477
Model:	RC1920C	T-Log Number:	T43891
		Proj Eng:	David Bare
Contact:	Dirk Kieger		
Emissions Spec:	FCC 24 E & IC-RSS 133	Class:	N/A
Immunity Spec:		Environment:	

EMC Test Data

For The

Repeater Technologies

Model

RC1920C



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Emissions Spec:	FCC 24 E & IC-RSS 133	Class:	N/A
Immunity Spec:	Enter immunity spec on cover	Environment:	

EUT INFORMATION

General Description

The EUT is an repeater amplifier which is designed to be used with base station PCS towers. Normally, the EUT would be placed on a table top during operation. The EUT was, therefore, treated as table-top equipment during testing to simulate the end user environment. The electrical rating of the EUT is 120V, 60 Hz, 12 Amps.

Equipment Under Test

Manufacturer	Model	Description	Serial Number	FCC ID
Repeater Technologies	RC1920C	amplifier	N/A	

EUT Enclosure

The EUT enclosure is primarily constructed of fabricated sheet steel. It measures approximately 35.6 cm wide by 29.2 cm deep by 40.6 cm high.

Modification History

Mod. #	Test	Date	Modification
1			
2			
3			



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Emissions Spec:	FCC 24 E & IC-RSS 133	Class:	N/A
Immunity Spec:	Enter immunity spec on cover	Environment:	

Test Configuration #1

Local Support Equipment

Manufacturer	Model	Description	Serial Number	FCC ID
Rohde and Schwarz	SMIQ O3E	PCS Signal Generator	DE22078	N/A
Rohde and Schwarz	SMIQ O3E	PCS Signal Generator	DE26557	N/A
Mini Circuits	15542 ZAPD-2-21-3W	Combiner	0 0124	N/A
HP	Pavilion 7840	PC	KR10504395	DoC

Remote Support Equipment

Manufacturer	Model	Description	Serial Number	FCC ID
None				

EUT Interface Ports

EUT Port	Connected To	Cable(s)		
		Description	Shielded or Unshielded	Length(m)
EUT RF In	Combiner Output	Direct Connection	-	-
EUT RF Out #1	20dB Attenuator	Direct Connection	-	-
EUT RF Out #2	20dB Attenuator	Direct Connection	-	-
EUT Serial	Laptop Serial	DB9-DB9	Shielded	3

EUT Operation During Emissions

A signal generator was used to provide CDMA modulation to EUT, which was set to produce maximum output power.



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Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Section 2.1046 & RSS-133 (6.2): RF Power

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/19/2001 & 10/12/2001

Config. Used: 1

Test Engineer: jmartinez / Mark Briggs

Config Change: None

Test Location: SVOATS #2

EUT Voltage: 120V/60Hz

General Test Configuration

The EUT was located on the turntable for radiated field strength measurements and the local support equipment was located underneath the table.

A power meter was used to measure both the low and high channels on the Base and mobile channels

Ambient Conditions:

Temperature: 30°C

Rel. Humidity: 14%

Summary of Results

Run #	Test Performed	Limit	Result	Comment
1	Conducted Output Power	24.232(a) & RSS-133(6.2)	Pass	Main (Reverse)
2	Conducted Output Power	24.232(b) & RSS-133(6.2)	Pass	Base (Forward)

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



EMC Test Data

Client: Repeater Technologies

Job Number: J43477

Model: RC1920C

T-Log Number: T43891

Proj Eng: David Bare

Contact: Dirk Kieger

Spec: FCC 24 E & IC-RSS 133

Class: N/A

Run #1: Conducted Output Power (Mobile (Reverse))

Output power measured with a HP438A Power Meter and 8481A Sensor Head:

Block	Freq (MHz)	Measured Value (dBm)	Corredion factor (dB)	Power Output (dBm)	Comments
A	1851.25	-2.1	20.0	17.9	Power Meter
C	1908.75	-1.9	20.0	18.1	Power Meter

Correction factor for power meter measurement accounts for attenuator between rf output and power meter

Run #2: Conducted Output Power (Base (forward))

Output power measured with a HP438A Power Meter and 8481A Sensor Head:

Block	Freq (MHz)	Measured Value (dBm)	Corredion factor (dB)	Power Output (dBm)	Comments
A	1931.25	19.7	20.0	39.7	Power Meter
C	1987.75	20.4	20.2	40.6	Power Meter

Correction factor for power meter measurement accounts for attenuator between rf output and power meter



EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Section 2.1049 & RSS-133 (5.6): Occupied Bandwidth

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/19/2001 & 10/12/2001

Config. Used: 1

Test Engineer: jmartinez / Mark Briggs

Config Change: None

Test Location: SVOATS #2

EUT Voltage: 120V/60Hz

General Test Configuration

When performing conducted measurements from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected. Modulation must not exceed manufactures stated bandwidth.

For this specific test the occupied bandwidth was measured to provide the correct Resolution bandwidth that will be used for the bandedge measurements. This requirement is specified in 24.238(b) and RSS-133 (5.9) & (6.3)(a).

Because the EUT is an amplifier, input and output plots were made to show that the bandwidth was not altered. By altered we refer to the bandwidth increasing in width.

Ambient Conditions:

Temperature: 30°C

Rel. Humidity: 14%

Summary of Results

Run	Test Performed	Limit	Result	Comment
1	Occupied Bandwidth	24.238(b) & RSS-133(5.6)	Pass	Main (Reverse)
2	Occupied Bandwidth	24.238(b) & RSS-133(5.6)	Pass	Base (Forward)



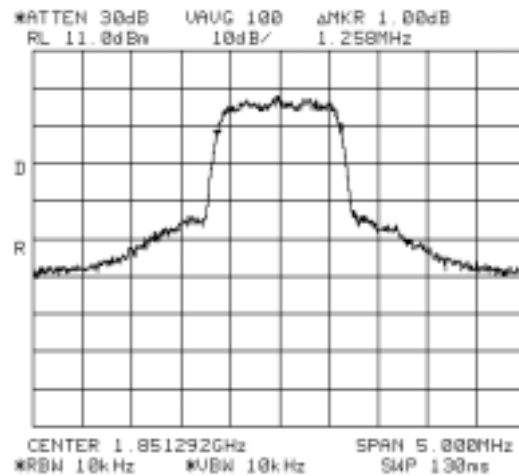
EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
Contact: Dirk Kieger	Proj Eng: David Bare
Spec: FCC 24 E & IC-RSS 133	Class: N/A

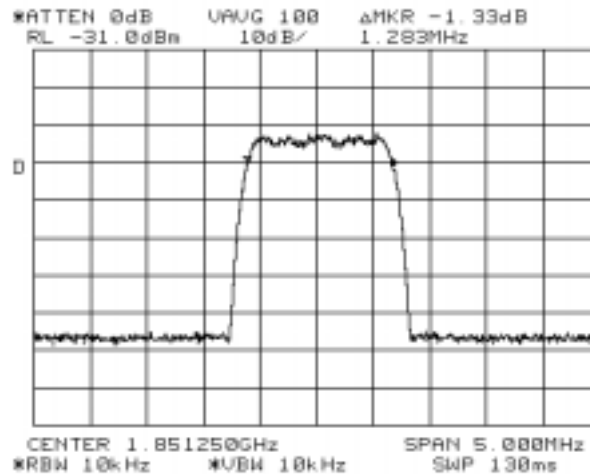
Run #1: Occupied Bandwidth (Mobile (Reverse))

Measured Value	Specified Bandwidth	Resolution	Comments
(dBm)	MHz	(kHz)	
1.258	1.25	10	

Output Plot Low Channel



Input Plot Low Channel



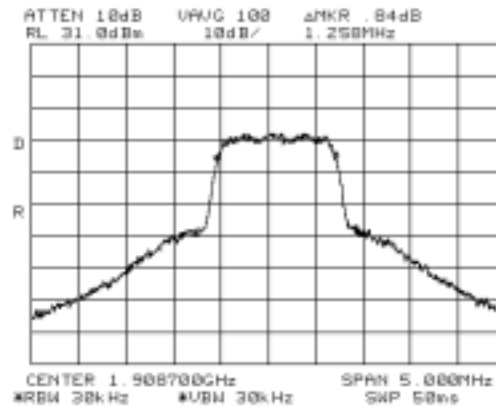


EMC Test Data

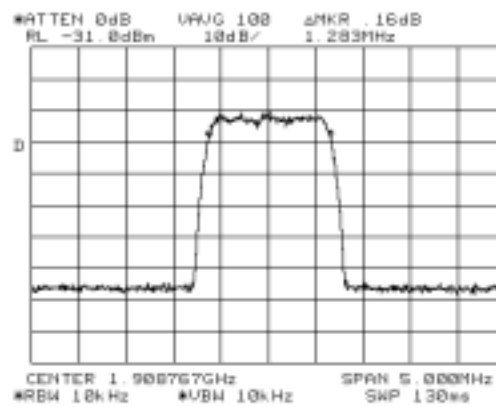
Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Measured Value	Specified Bandwidth	Resolution	Comments
(dBm)	MHz	(kHz)	
1.258	1.25	10	

Output Plot High Channel



Input Plot High Channel





EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Run #2: Occupied Bandwidth (Base (forward))

Block	Freq (MHz)	Measured Value (dBm)	Specified Bandwidth MHz	Resolution (kHz)	Comments
A	1931.25	1.258	1.25	10	See plot
C	1943.75	1.242	1.25	10	See plot

Plots were also made of the spectral content of the input signals at 1931.2 MHz and 1943.75 MHz



EMC Test Data

Client: Repeater Technologies

Job Number: J43477

Model: RC1920C

T-Log Number: T43891

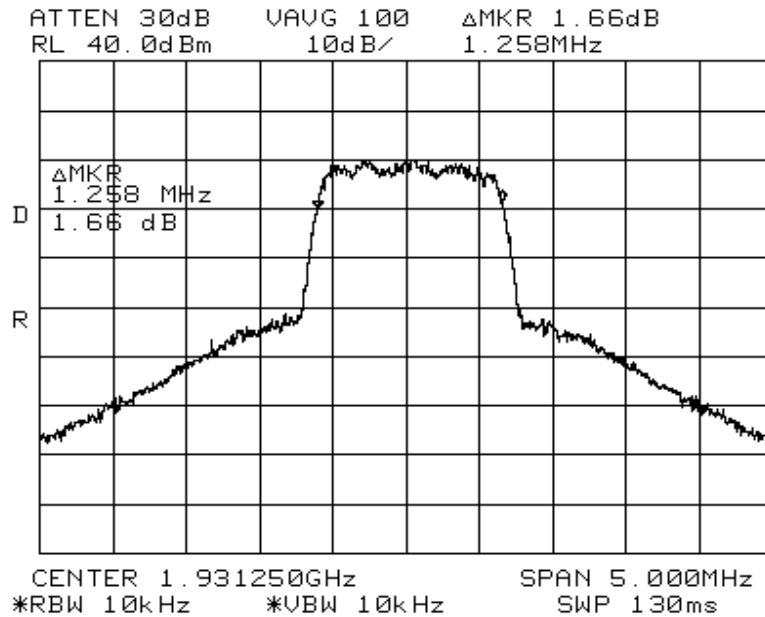
Proj Eng: David Bare

Contact: Dirk Kieger

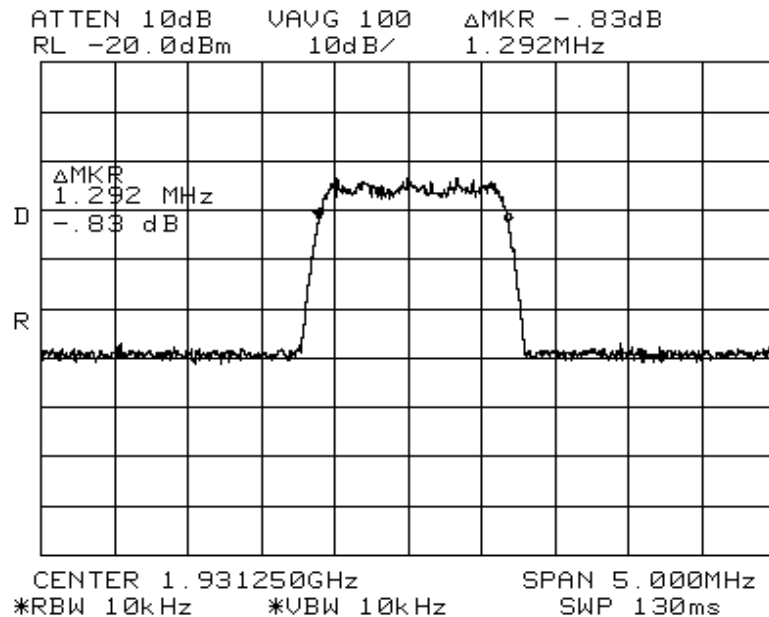
Spec: FCC 24 E & IC-RSS 133

Class: N/A

1931.25 MHz Bandwidth (EUT RF Output)



1931.25 MHz Bandwidth (EUT RF Input)





EMC Test Data

Client: Repeater Technologies

Job Number: J43477

Model: RC1920C

T-Log Number: T43891

Proj Eng: David Bare

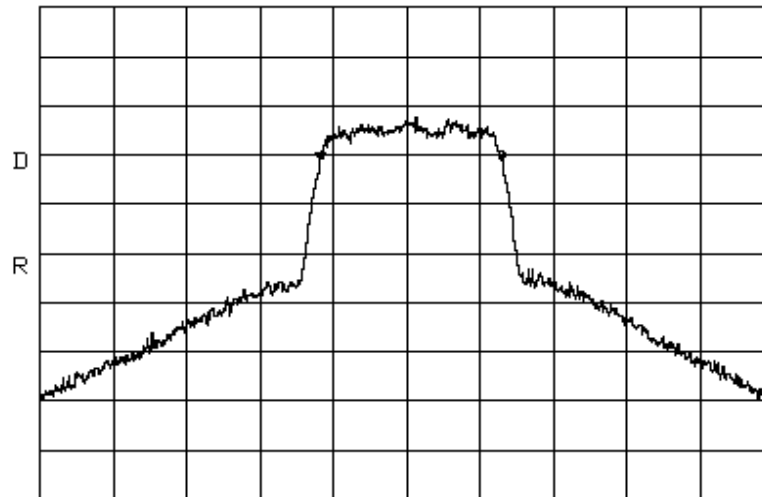
Contact: Dirk Kieger

Spec: FCC 24 E & IC-RSS 133

Class: N/A

1988.75 MHz Bandwidth (EUT RF Output)

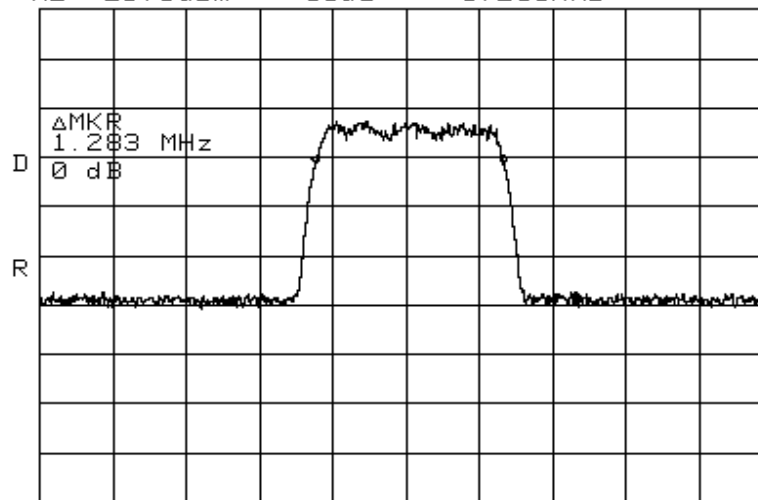
*ATTEN 30dB VAUG 100 ΔMKR -.17dB
RL 40.0dBm 10dB/ 1.242MHz



CENTER 1.988750GHz SPAN 5.000MHz
*RBW 10kHz *VBW 10kHz SWP 130ms

1988.75 MHz Bandwidth (EUT RF Input)

ATTEN 10dB VAUG 100 ΔMKR -.17dB
RL -20.0dBm 10dB/ 1.283MHz



CENTER 1.988750GHz SPAN 5.000MHz
*RBW 10kHz *VBW 10kHz SWP 130ms



EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Section 2.1051, RSS-133 (6.3): Spurious emission at the Antenna Terminal

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/19/01	Config. Used: 1
Test Engineer: jmartinez	Config Change: None
Test Location: SVOATS #2	EUT Voltage: 120V/60Hz

General Test Configuration

The EUT and all local support equipment were located on the table for testing. The Eut was connected directly to Test Receiver. A 20-dB attenuator was used between the EUT and Test Receiver.

Bandedge measurements were made with a lower resolution than the calculated 1% requirement. The bandedge measurements were then corrected using the $10 \cdot \log(1\% \text{ RB} / \text{RB used})$. Where 1% RB is the 26-dB or 99 % measured emission Bandwidth and RB used is the Spectrum analyzer setting used for the Bandedge measurement.

Ambient Conditions: Temperature: 23°C
Rel. Humidity: 31%

Summary of Results

Run	Test Performed	Limit	Result	Comment
1	Bandedge Measurement & Out-Of-Band emission	24.238(a) & RSS-133 (6.3)	Pass	Mobile (Forward) Channel 1
2	Bandedge Measurement & Out-Of-Band emission	24.238(a) & RSS-133 (6.3)	Pass	Mobile (Forward) Channel 2
3	Bandedge Measurement & Out-Of-Band emission	24.238(a) & RSS-133 (6.3)	Pass	Base testing at Main antenna
4	Bandedge Measurement & Out-Of-Band emission	24.238(a) & RSS-133 (6.3)	Pass	Base testing at Diversity antenna



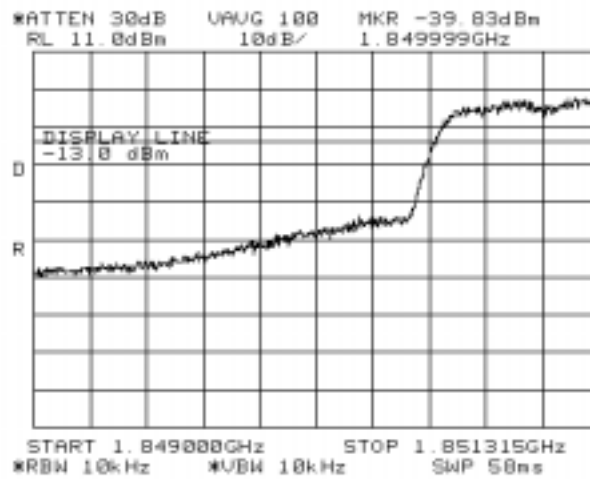
EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

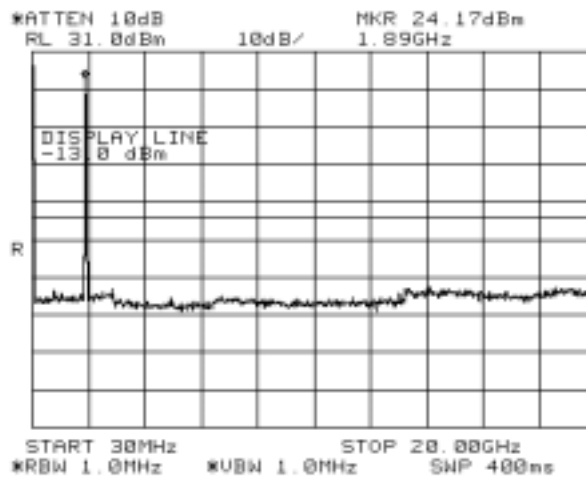
Run #1: Bandedge Measurement & Out-Of-Band emissions; (Mobile (Reverse) Channel 1)

Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
Low	1850	10	12.5	1.25	-39.83	-38.58

Low channel Bandedge



Low channel Out-of-Band

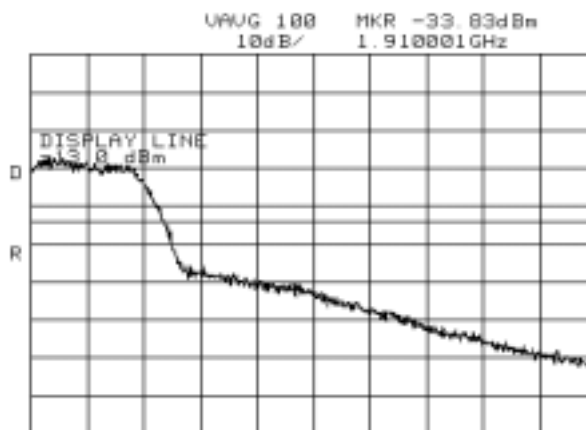




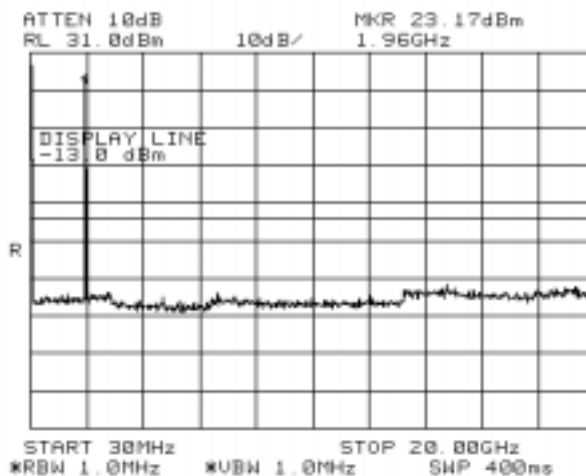
EMC Test Data

Client: Repeater Technologies				Job Number: J43477		
Model: RC1920C				T-Log Number: T43891		
				Proj Eng: David Bare		
Contact: Dirk Kieger						
Spec: FCC 24 E & IC-RSS 133				Class: N/A		
Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
High	1910	10	12.5	1.25	-33.83	-32.58

High channel Bandedge



High channel Out-of-Band





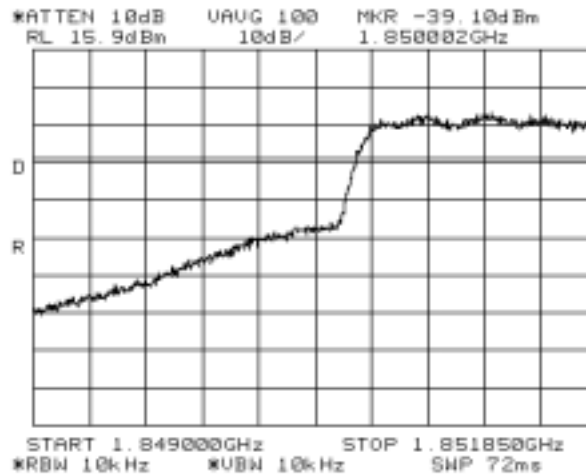
EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

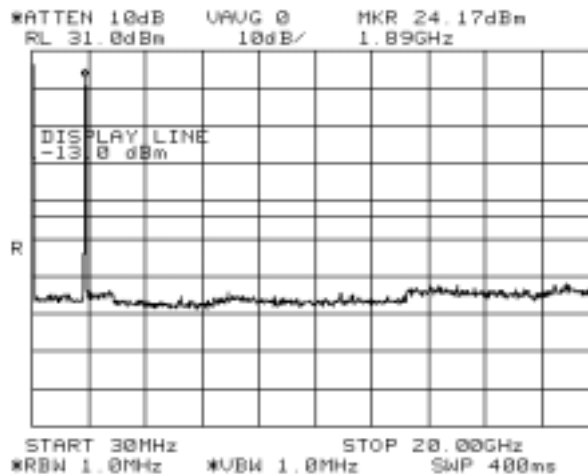
Run #2: Bandedge Measurement & Out-Of-Band emissions; (Mobile (Reverse) Channel 2)

Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
Low	1850	10	12.5	1.25	-39.1	-37.85

Low channel Bandedge



Low channel Out-of-Band

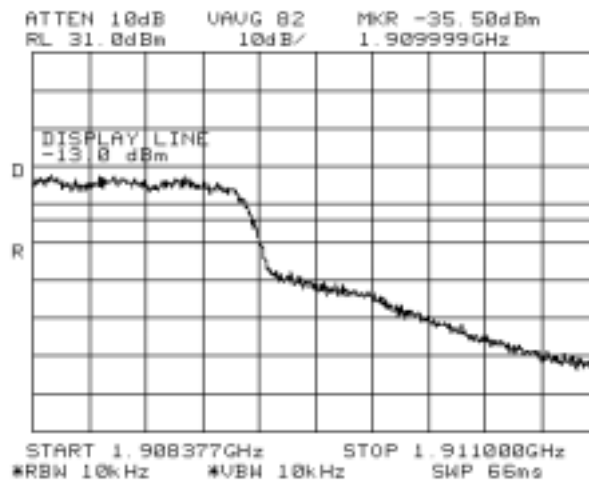




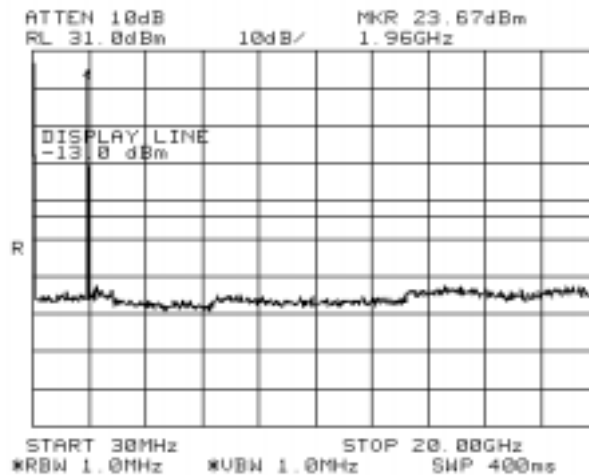
EMC Test Data

Client: Repeater Technologies				Job Number: J43477		
Model: RC1920C				T-Log Number: T43891		
				Proj Eng: David Bare		
Contact: Dirk Kieger						
Spec: FCC 24 E & IC-RSS 133				Class: N/A		
Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
High	1910	10	12.5	1.25	-35.5	-34.25

High channel Bandedge



High channel Out-of-Band





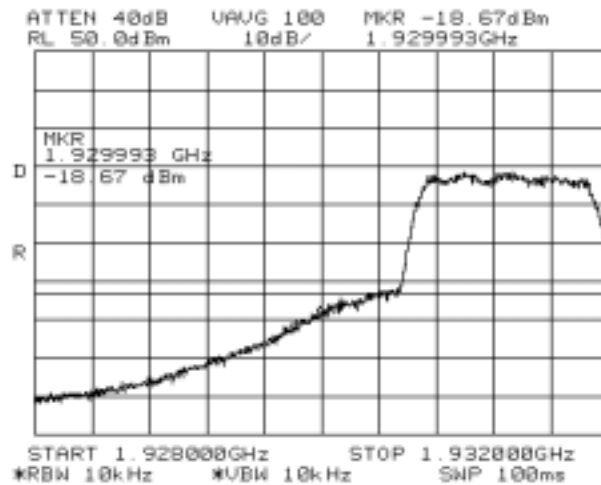
EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

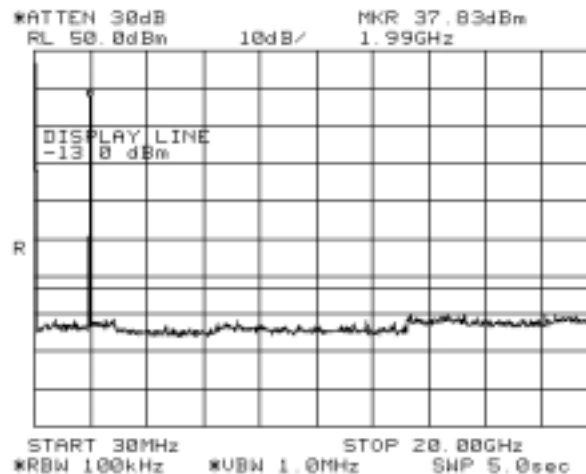
Run #3: Bandedge Measurement & Out-Of-Band emissions; (Base testing at Main port)

Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
Low	1930	10	12.5	1.25	-18.67	-17.42

Low channel Bandedge



Low channel Out-of-Band

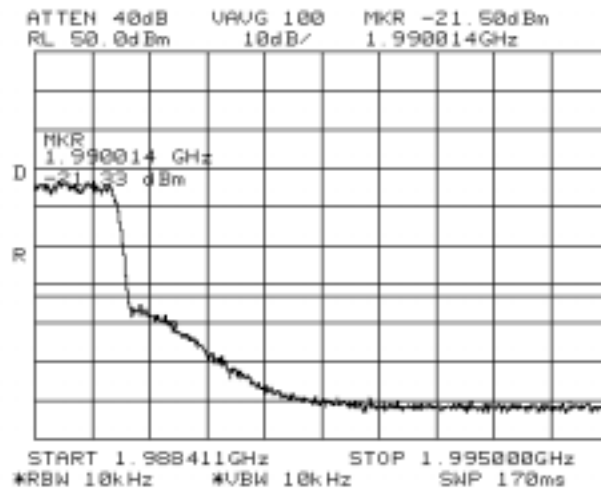




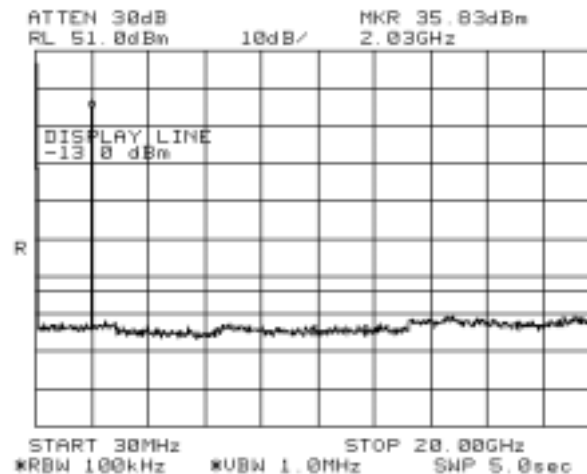
EMC Test Data

Client: Repeater Technologies				Job Number: J43477		
Model: RC1920C				T-Log Number: T43891		
				Proj Eng: David Bare		
Contact: Dirk Kieger						
Spec: FCC 24 E & IC-RSS 133				Class: N/A		
Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
High	1990	10	12.5	1.25	-21.5	-20.25

High channel Bandedge



High channel Out-of-Band





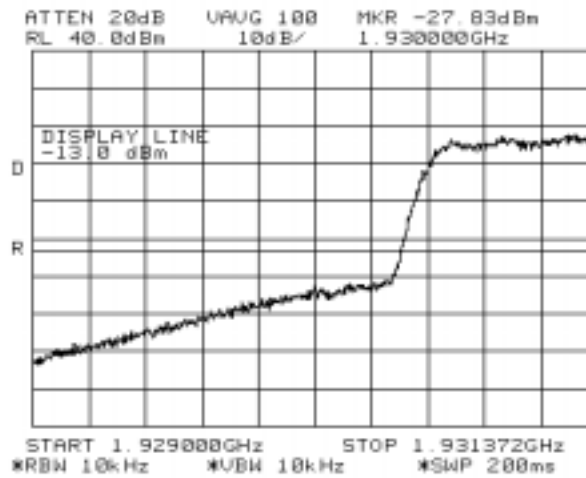
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Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

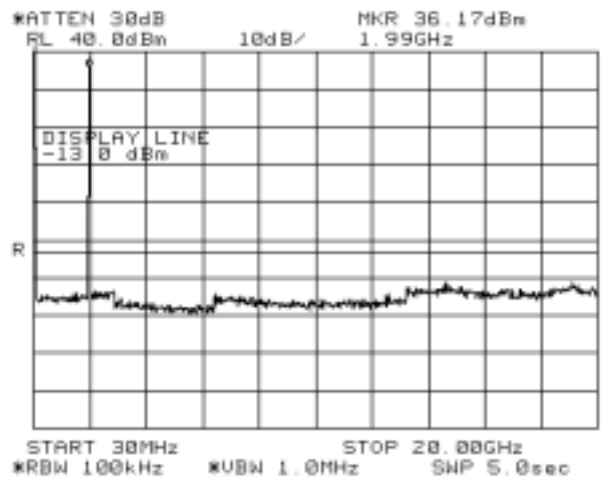
Run #4: Bandedge Measurement & Out-Of-Band emissions; (Base testing at Diversity Antenna)

Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
Low	1930	10	12.5	1.25	-27.83	-26.58

Low channel Bandedge



Low channel Out-of-Band

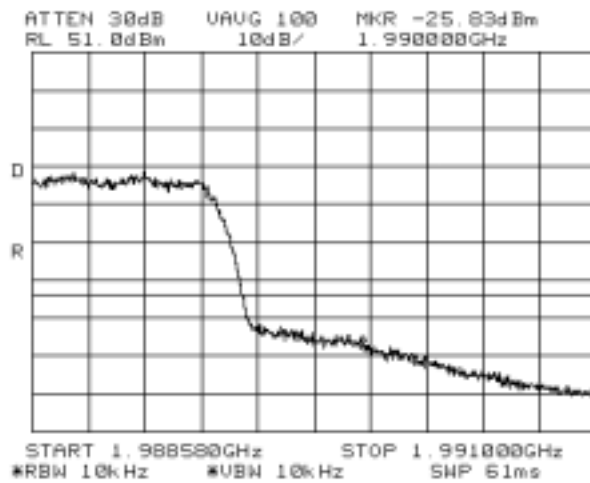




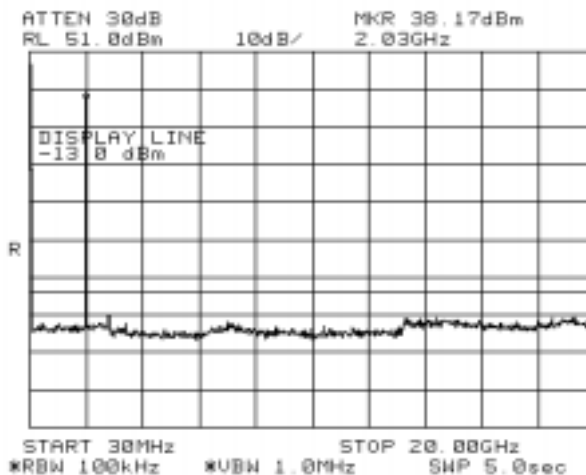
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Model: RC1920C				T-Log Number: T43891		
				Proj Eng: David Bare		
Contact: Dirk Kieger						
Spec: FCC 24 E & IC-RSS 133				Class: N/A		
Channel	Frequency (MHz)	Resolution used (kHz)	1% Resolution BW (kHz)	Correction (dB)	Measured Bandedge (dBm)	Corrected Value (dBm)
High	1990	10	12.5	1.25	-25.83	-24.58

High channel Bandedge



High channel Out-of-Band





EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Section 2.1053 & RSS-133 (6.3): Field strenght of Spurious emissions

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 6/19/01

Config. Used: 1

Test Engineer: jmartinez

Config Change: None

Test Location: SVOATS #2

EUT Voltage: 120V/60Hz

General Test Configuration

The EUT was located on the turntable for radiated emissions testing.

On the OATS, the measurement antenna was located 3m from the EUT for the frequency range 1 - 20 GHz.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT. For any Spurious emission more than 20-dB of the field strenght limit, substitution was performed. Substitution Method is not required for Spurious emissions 20-dB below the calculated field strength limit.

Ambient Conditions:

Temperature: 21°C

Rel. Humidity: 35%

Summary of Results

Run #	Test Performed	Limit	Result	Margin
1	RE, 1000 - 19000 MHz Maximized Emissions	24.238(a) & RSS-133 (6.3)(a)(ii)	Pass	-20dB @ 3977.5 MHz
2	RE, 1000 - 19000 MHz Maximized Emissions	24.238(a) & RSS-133 (6.3)(a)(ii)	Pass	-22.45dB @ 3952 MHz

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



EMC Test Data

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Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Run #1: Maximized readings, 1000 - 19000 MHz

Harmonic measurements of the Fundamental Frequency of 1988.75 MHz

Frequency	Level	Pol	24.238(a)		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
Power set to Maximum.								
3977.500	64.2	H	84.2	-20.0	Pk	145	1.1	Peak reading, peak limit (Note 2)
3977.500	63.8	V	84.2	-20.4	Pk	140	1.0	Peak reading, peak limit (Note 2)
7955.000	49.2	H	84.2	-35.0	Pk	165	1.2	Peak reading, peak limit (Note 2)
7955.000	47.4	V	84.2	-36.8	Pk	169	1.1	Peak reading, peak limit (Note 2)
5966.250	47.3	H	84.2	-37.0	Pk	203	1.0	Peak reading, peak limit (Note 2)
5966.250	46.6	V	84.2	-37.6	Pk	193	1.0	Peak reading, peak limit (Note 2)
9943.75	45.3	H	84.2	-38.9	Pk	125	1.1	Peak reading, peak limit (Note 2)
13921.25	44.5	H	84.2	-39.7	Pk	0	1.1	Note 1
19887.50	44.3	V	84.2	-39.9	Pk	0	1.1	Note 1
11932.50	44.2	H	84.2	-40.0	Pk	0	1.1	Note 1
19887.50	44.2	H	84.2	-40.0	Pk	0	1.1	Note 1
17898.75	44.2	V	84.2	-40.0	Pk	0	1.1	Note 1
17898.75	44.1	H	84.2	-40.1	Pk	0	1.1	Note 1
15910.00	43.2	H	84.2	-41.0	Pk	0	1.1	Note 1
9943.75	43.2	V	84.2	-41.0	Pk	228	1.1	Peak reading, peak limit (Note 2)
13921.25	42.2	V	84.2	-42.0	Pk	0	1.1	Note 1
15910.00	40.5	V	84.2	-43.7	Pk	0	1.1	Note 1
11932.50	40.2	V	84.2	-44.0	Pk	0	1.1	Note 1

Note 1: No other emission detected, within 20-dB of the limit, beyond the 4th harmonic.

Note 2: Substitution was not performed since the measured field strength is 20-dB below the limit.



EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Run #2: Maximized readings, 1000 - 19000 MHz

Harmonic measurements of the Fundamental Frequency of 1976.25 MHz

Frequency	Level	Pol	24.238(a)		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
Power set to Maximum.								
3952.000	61.8	V	84.2	-22.5	Pk	56	1.1	Peak reading, peak limit (Note 2)
3952.000	57.8	H	84.2	-26.4	Pk	91	1.2	Peak reading, peak limit (Note 2)
5928.000	51.3	V	84.2	-32.9	Pk	25	1.1	Peak reading, peak limit (Note 2)
5928.000	48.8	H	84.2	-35.4	Pk	45	1.2	Peak reading, peak limit (Note 2)
7905.000	47.6	V	84.2	-36.6	Pk	35	1.1	Peak reading, peak limit (Note 2)
7905.000	47.1	H	84.2	-37.1	Pk	315	1.2	Peak reading, peak limit (Note 2)
19762.00	44.8	V	84.2	-39.4	Pk	0	1.1	Note 1
17786.00	44.5	V	84.2	-39.7	Pk	0	1.1	Note 1
9881.00	44.2	H	84.2	-40.0	Pk	0	1.1	Note 1
13833.00	44.2	V	84.2	-40.0	Pk	0	1.1	Note 1
15810.00	44.1	H	84.2	-40.1	Pk	0	1.1	Note 1
11857.00	43.2	H	84.2	-41.0	Pk	0	1.1	Note 1
15810.00	43.2	V	84.2	-41.0	Pk	0	1.1	Note 1
19762.00	42.3	H	84.2	-41.9	Pk	0	1.1	Note 1
13833.00	42.1	H	84.2	-42.1	Pk	0	1.1	Note 1
11857.00	42.1	V	84.2	-42.1	Pk	0	1.1	Note 1
17786.00	40.2	H	84.2	-44.0	Pk	0	1.1	Note 1
9881.00	40.2	V	84.2	-44.0	Pk	0	1.1	Note 1

Note 1: No other emission detected, within 20-dB of the limit, beyond the 3th harmonic.

Note 2: Substitution was not performed since the measured field strength is 20-dB below the limit.



EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Section 2.1055 & RSS-133 (7): Frequency Stability

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test:	Config. Used:
Test Engineer:	Config Change:
Test Location: Enviromental Chamber	EUT Voltage:

General Test Configuration

EUT was place inside the Temperature Chamber and all local support equipment were located outside on a table for testing. The Eut was connected directly to Test Receiver. An attenuator was used between the EUT and Test Receiver.

Chamber was set to -30 to 50 degrees Celsius (60 degrees Celsius for Canada). Incremented 10 degree per temperature and let unit stabilized for every temperature.

Voltage stability was done at 20 degree Celsius. For battery operated units decrease DC voltage until battery end-point was found.

Voltage stability was done at 20 degree Celsius. For AC operated units varied voltage at 85% and 115% of the nomial AC voltage.

Ambient Conditions: Temperature: N/A
Rel. Humidity: N/A

Summary of Results

Run #	Test Performed	Limit	Result	Comment
1a	Temperature Vs. Frequency	24.235		No test

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



EMC Test Data

Client: Repeater Technologies	Job Number: J43477
Model: RC1920C	T-Log Number: T43891
	Proj Eng: David Bare
Contact: Dirk Kieger	
Spec: FCC 24 E & IC-RSS 133	Class: N/A

Run# 1a: Temperature Vs. Frequency

Customer has provided explanation as to the frequency correction during extreme temperature or voltage changes.
Please refer to Schematics label "S87-1304-01 rev. 11a" page 5 of 7.