

## MEASUREMENT AND TECHNICAL REPORT

OMNEX CONTROL SYSTEMS INCORPORATED  
 74-1833 Coast Meridian Road  
 Port Coquitlam, BC V3C 6G5  
 Canada

**DATE: 02 November 2004**

<b>This Report Concerns:</b>	Original Grant:	Class II Change: X
<b>Equipment Type:</b>	OEM 900	
<b>Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?</b>	Yes: Defer until:	No: X
<b>Company Name agrees to notify the Commission by:</b> of the intended date of announcement of the product so that the grant can be issued on that date.	N/A	
<b>Transition Rules Request per 15.37?</b>	Yes:	No: X*
(*) FCC Part 15, Paragraph(s) 15.109(a), 15.209(a), 15.247(a), 15.247(b), and 15.247(c); RSS210, 5.91; 6.2.2(o)		
<b>Report Prepared by:</b>	<b>TÜV AMERICA, INC</b> 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone: 858 678 1400 Fax: 858 546 0364	

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**1.0 GENERAL INFORMATION**

**1.1 Product Description**

None

**1.2 Related Submittal Grant**

None

**1.3 Tested System Details**

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system are:

None

**1.4 Test Methodology**

Purpose of Test: To demonstrate compliance with the following tests.

TEST	FCC CFR 47#	PASS/FAIL
Bandwidth	15.247(a)(1)(i) RSS 210, 5.9.1	Pass
Channel Separation	15.247(a)(1)	Pass
Time of Occupancy	15.247(a)(1)(i)	Pass
Number of Hopping Frequencies	15.247(a)(1)(i); RSS 210, 6.2.2(o)	Pass
Peak Output Power	15.247(b)(1)	Pass
RF Conducted	15.247(c)	Pass
Radiated Spurious Emissions	15.247(c)	Pass
Radiated Emissions	15.109(a)	Pass
Radiated Emissions	15.209(a)	Pass

Testing was performed according to the procedures in FCC/ANSI C63.4 and CSA 108.8-M1983.

**1.5 Test Facility**

The open area test site and conducted measurement data were tested by:

TÜV AMERICA, INC  
 10040 Mesa Rim Road  
 San Diego, CA 92121-2912  
 Phone: 858 678 1400  
 Fax: 858 546 0364

The Test Site Data and performance comply with ANSI C63.4 and are registered with the FCC, 7435 Oakland Mills Road, Columbia Maryland 21046. All Measurement Data is acquired according to the content of FCC Measurement Procedure and ANSI C63.4, unless supplemented with additional requirements as noted in the test report.

## **2.0 SYSTEM TEST CONFIGURATION**

### **2.1 Justification**

The EUT was initially tested for FCC emissions in the following configuration:

See Test Setup Photos Exhibit

### **2.2 EUT Exercise Software**

None

### **2.3 Special Accessories**

None

### **2.4 Equipment Modifications**

None

### **2.5 Configuration of Test System**

See Test Setup Photos Exhibit

**3.0 BANDWIDTH EQUIPMENT/DATA  
 CHANNEL SEPARATION EQUIPMENT/DATA  
 TIME OF OCCUPANCY EQUIPMENT/DATA  
 NUMBER OF HOPPING FREQUENCIES EQUIPMENT/DATA  
 PEAK OUTPUT POWER EQUIPMENT/DATA  
 RF CONDUCTED EQUIPMENT/DATA  
 RADIATED SPURIOUS EMISSIONS EQUIPMENT/DATA  
 RADIATED EMISSIONS EQUIPMENT/DATA**

The following measurements were performed at the San Diego Testing Facility:

- Test not applicable

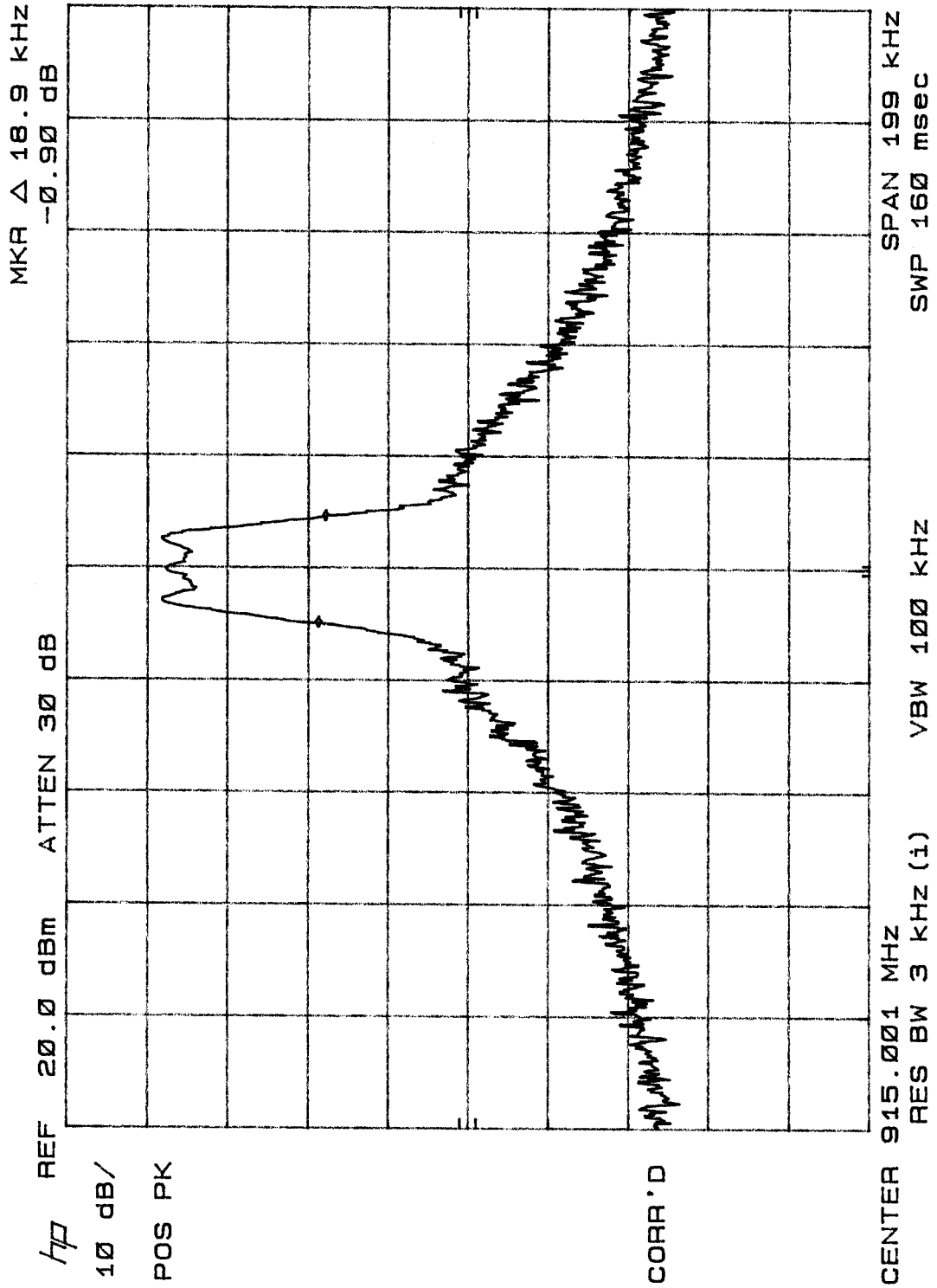
- - Roof (Small Open Area Test Site)
- - Canyon #2 (3- and 10-Meter Open Area Test Site), Carroll Canyon, San Diego

**Test Equipment Used:**

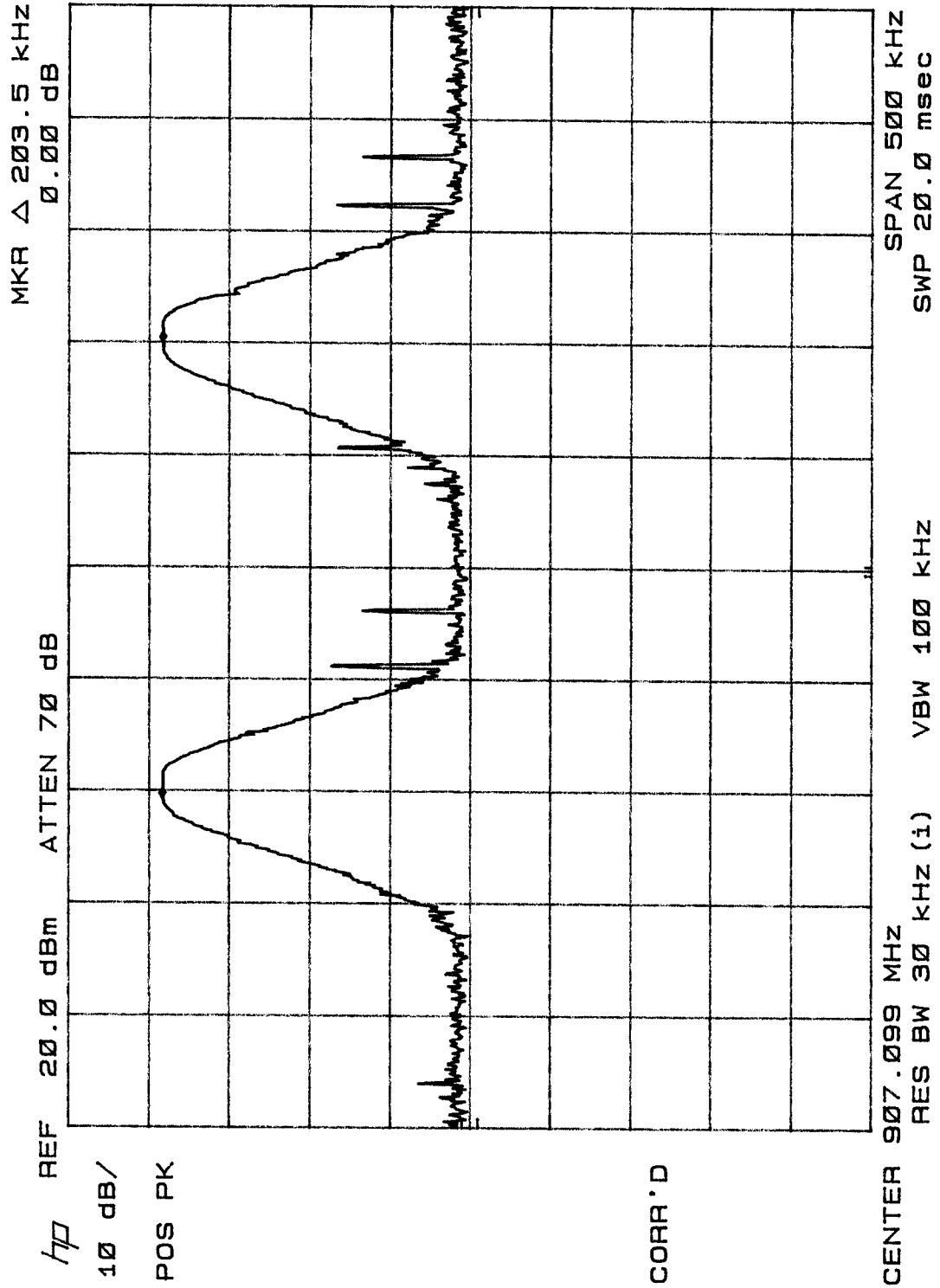
<b>Model No.</b>	<b>Prop. No.</b>	<b>Description</b>	<b>Manufacturer</b>	<b>Serial No.</b>	<b>Date Cal'ed</b>
HP8566B	6495	Spectrum Analyzer	Hewlett Packard	2542A12099	01/04
8445B	6677	Automatic Preselector	Hewlett Packard	1442A01127	VBU*
AMF-5D-010180-35-10P	719	Power Amplifier	Miteq	549460	VBU*
FF6549-2	783	High Pass Filter	Sage	008	VBU*
3115	251	Double Ridge Guide Antenna	EMCO	2495	01/04

**Remarks:** One year calibration cycle for all test equipment and sites. (\*) Verified Before Use.  
 Number of Hopping Frequencies - A RBW of 100 kHz was used to clearly depict the number of channels.

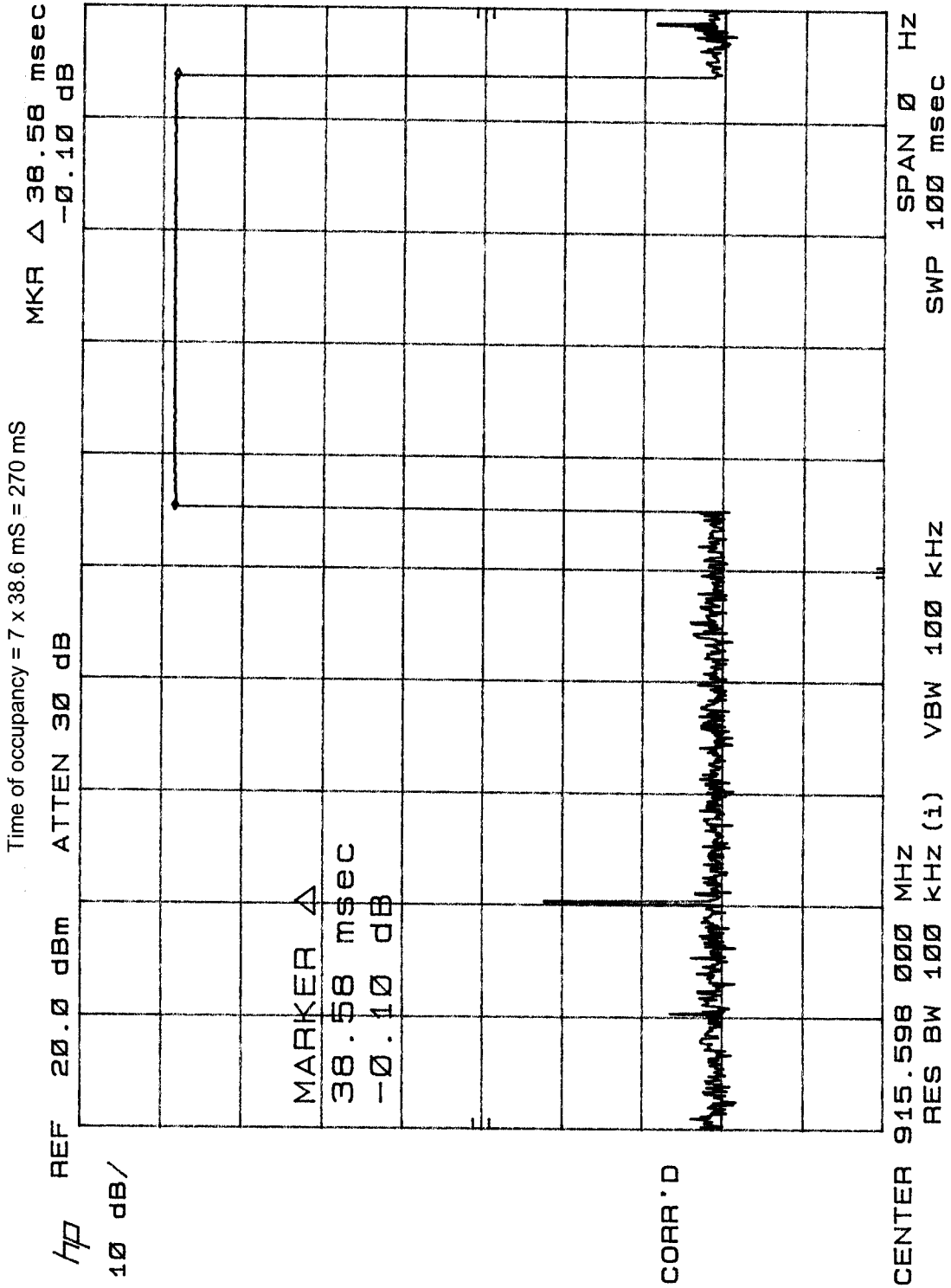
FCC Part 15.247(a)(1)(i): Bandwidth



FCC Part 15.247(a)(1): Channel Separation



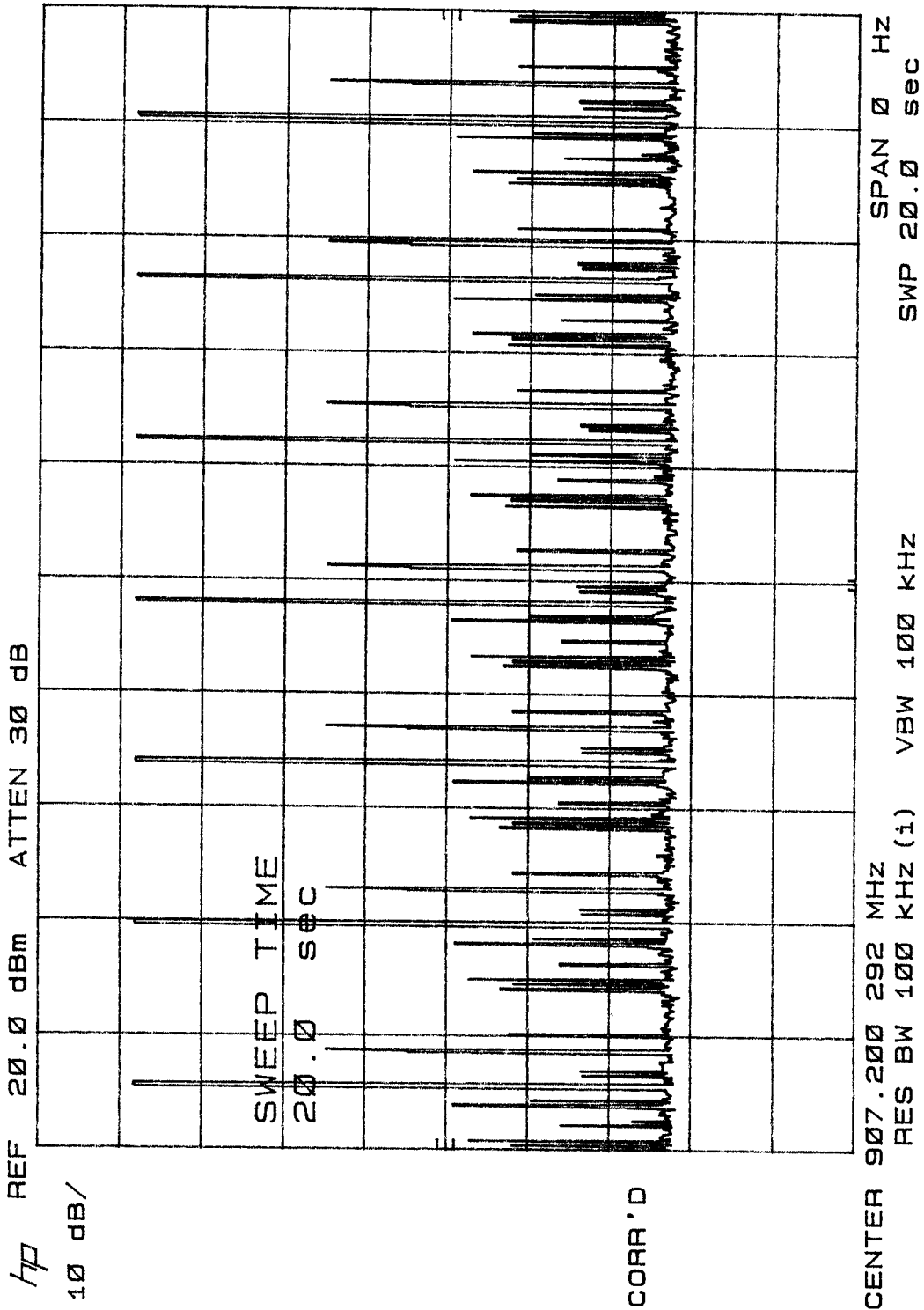
FCC Part 15.247(a)(1)(i): Time of Occupancy





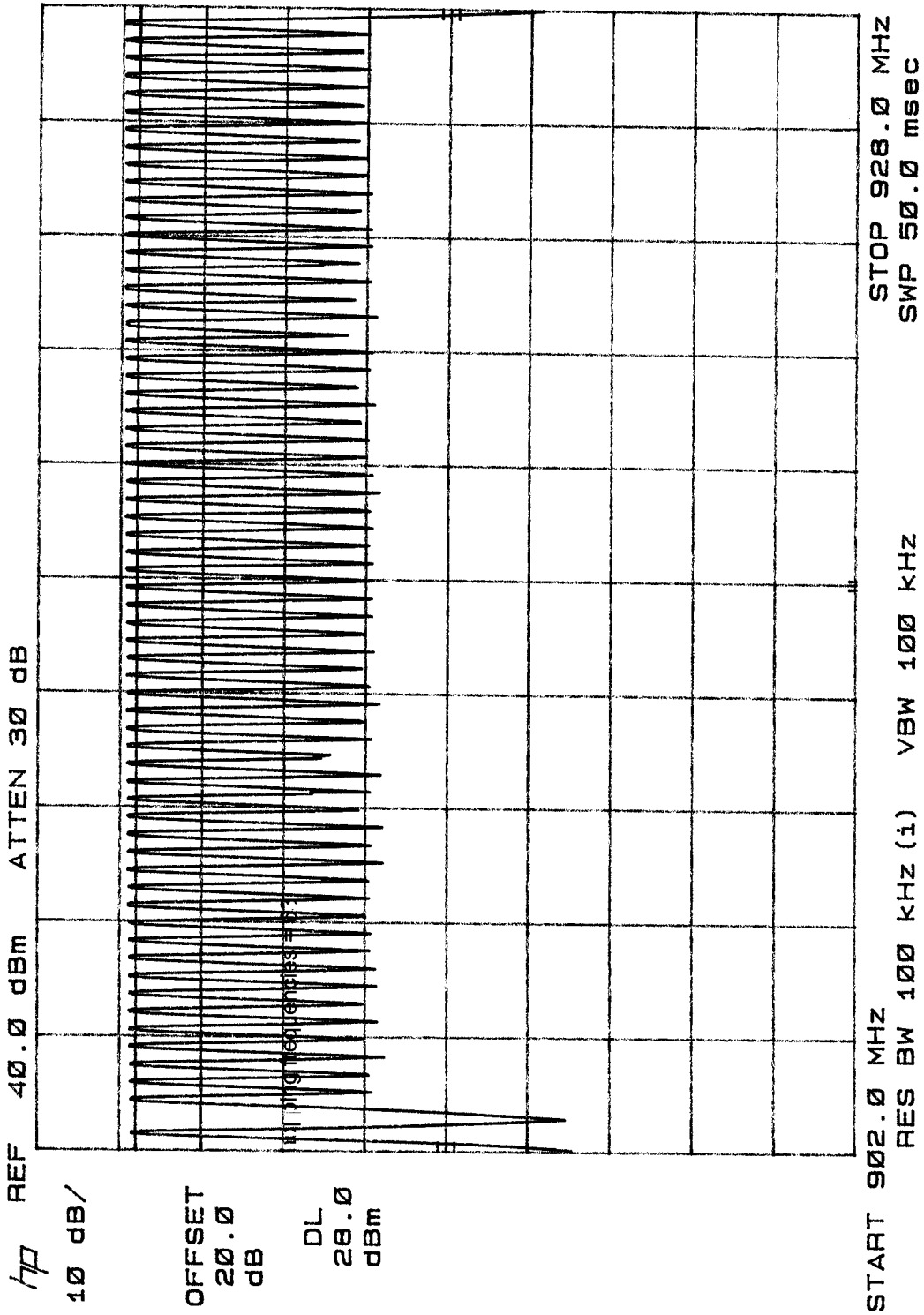
FCC Part 15.247(a)(1)(j): Time of Occupancy

Time of occupancy = 7 x 38.6 mS = 270 mS

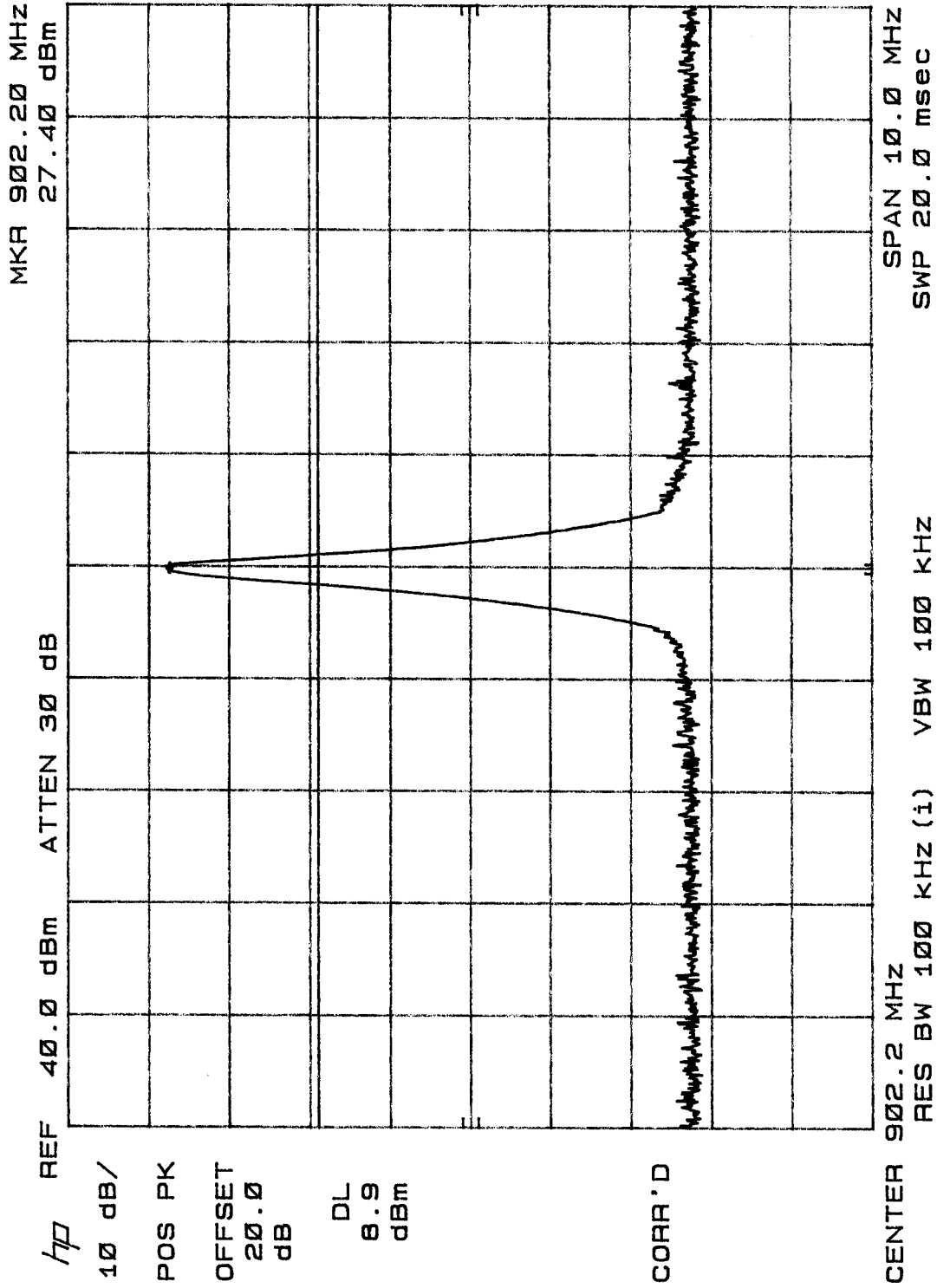


FCC Part 15.247(a)(1)(i): Number of Hopping Frequencies

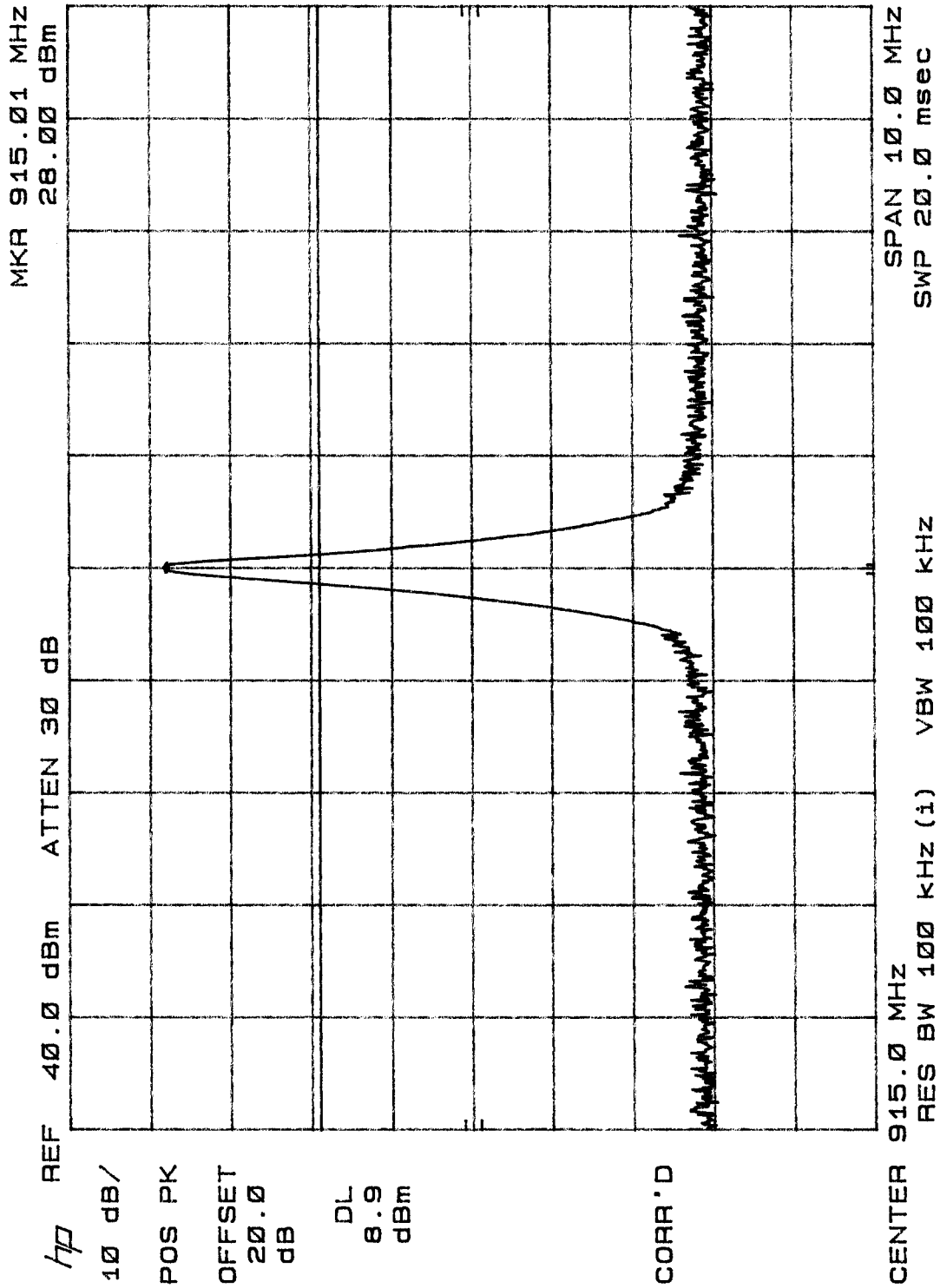
Number of hopping frequencies = 63



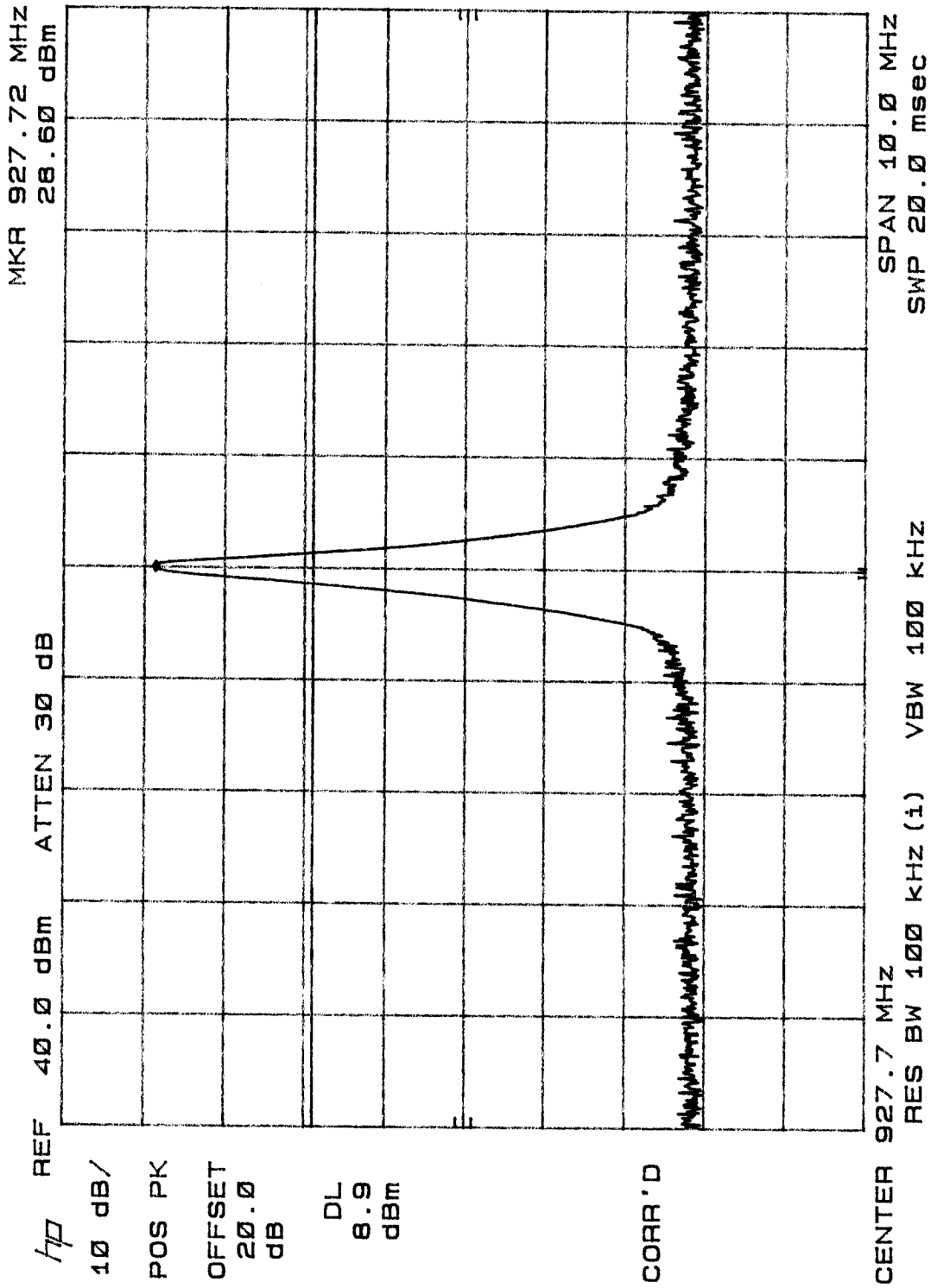
FCC Part 15.247(b)(1): Peak Output Power



FCC Part 15.247(b)(1): Peak Output Power

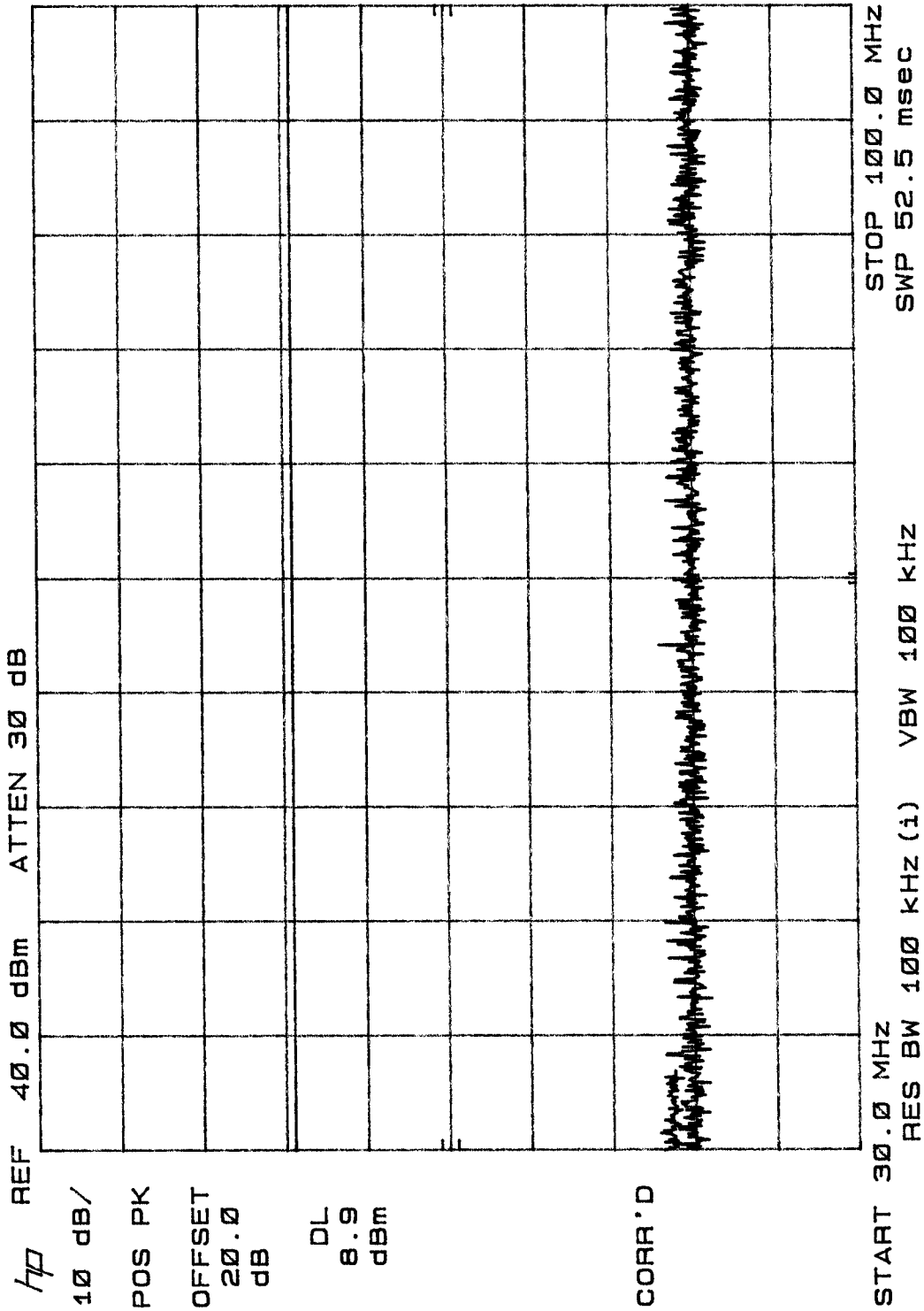


FCC Part 15.247(b)(1): Peak Output Power



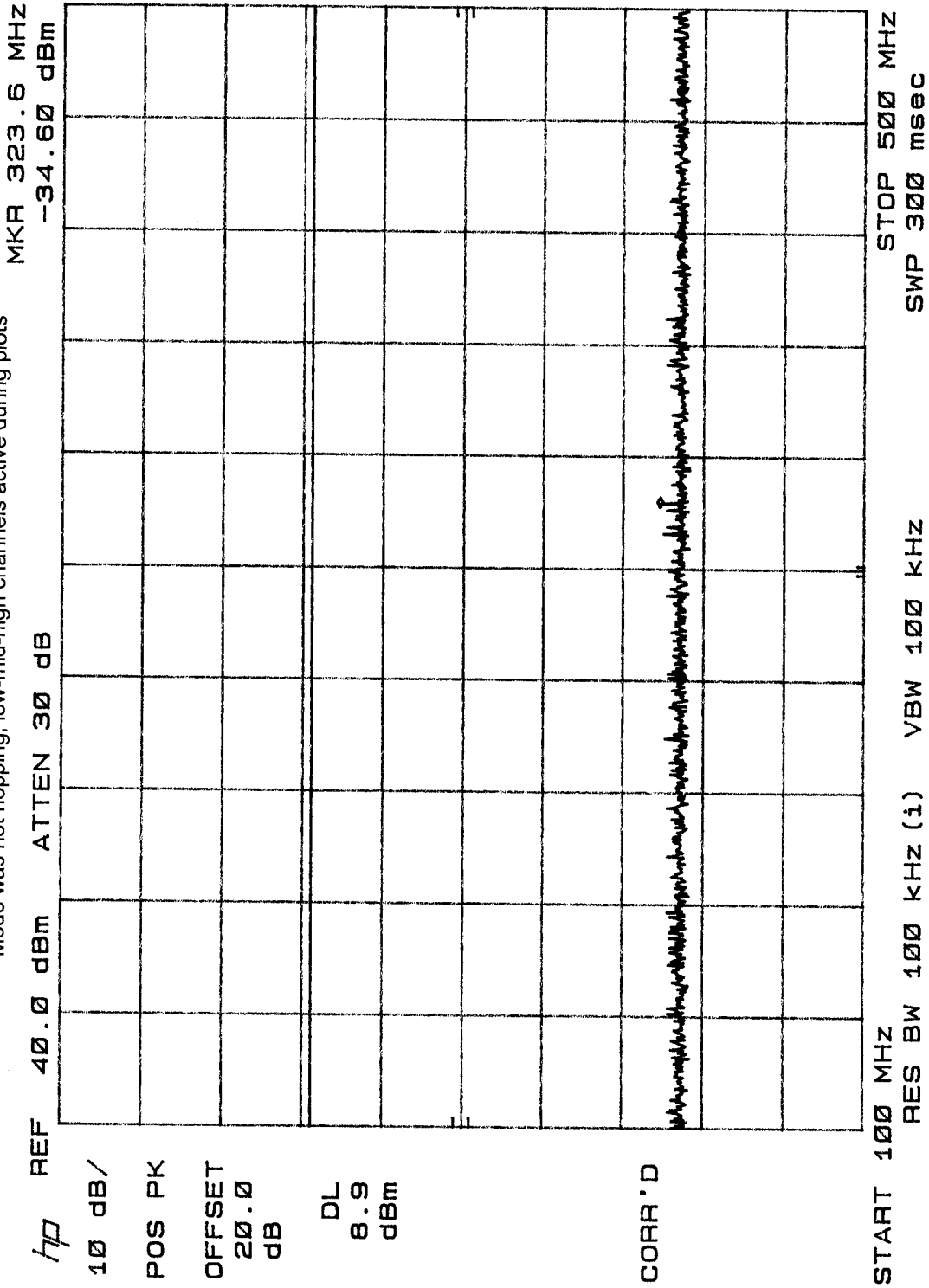
FCC Part 15.247(c): RF Conducted

Mode was not hopping, low-mid-high channels active during plots



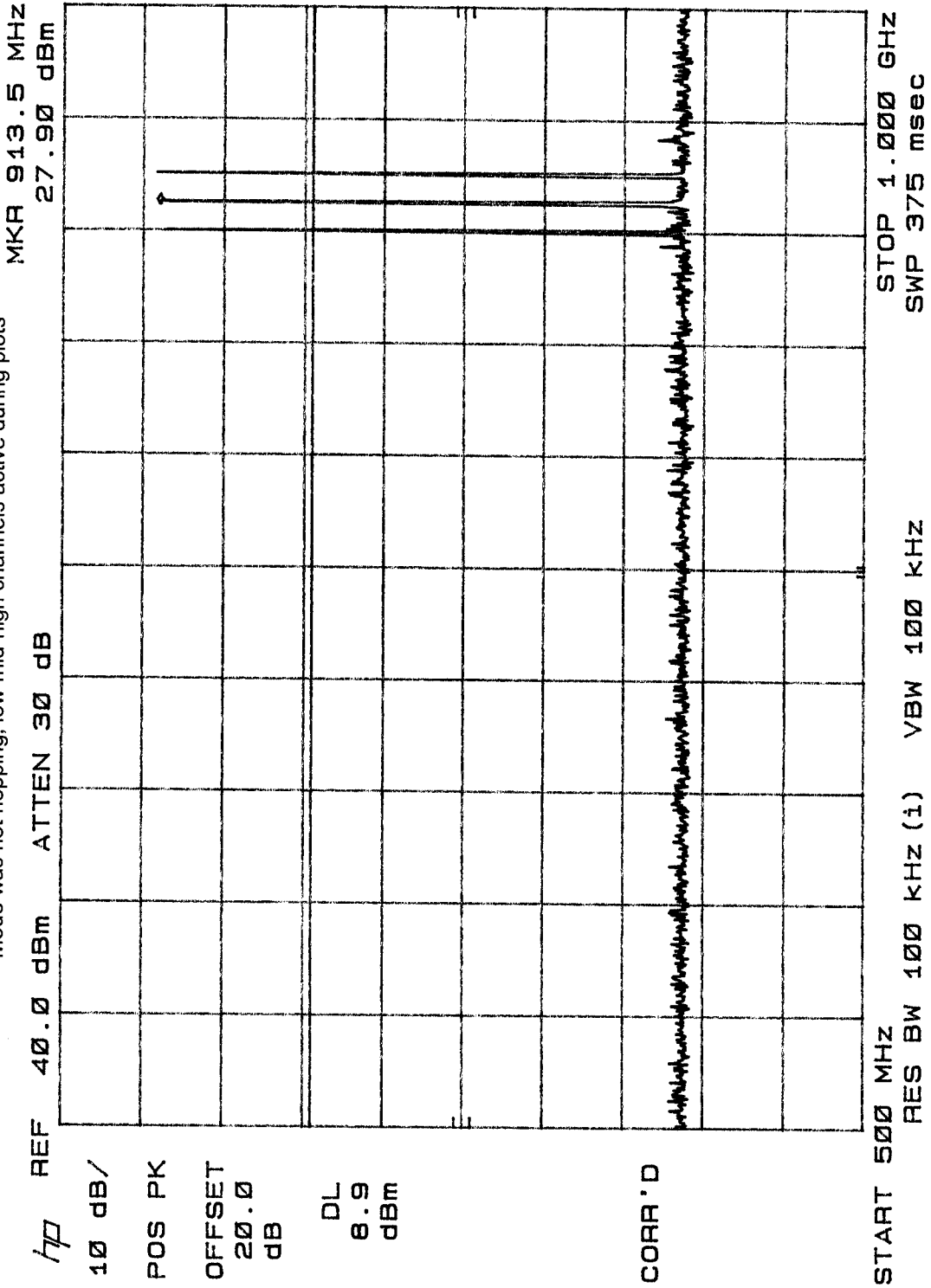
FCC Part 15.247(c): RF Conducted

Mode was not hopping, low-mid-high channels active during plots



FCC Part 15.247(c): RF Conducted

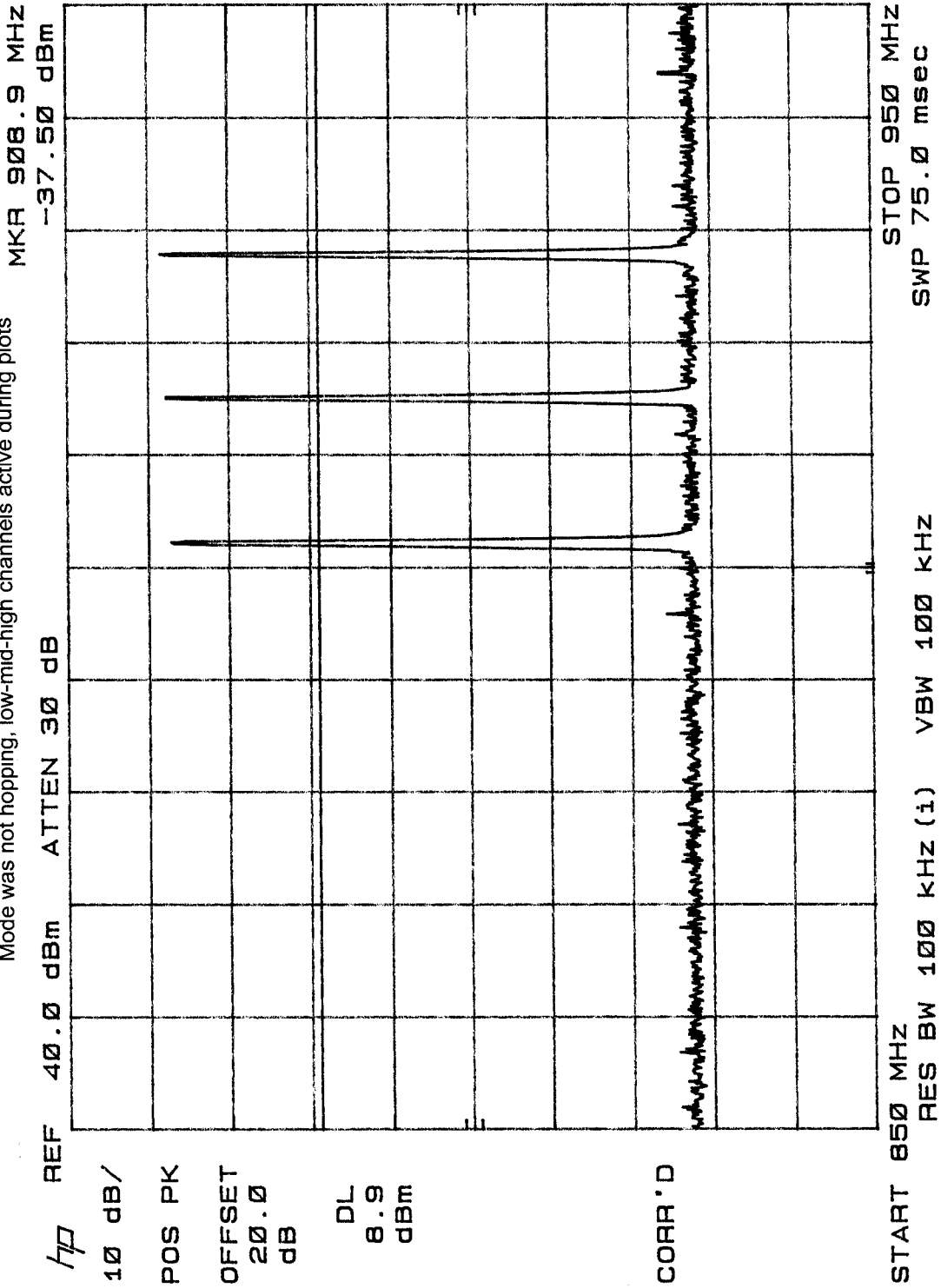
Mode was not hopping, low-mid-high channels active during plots



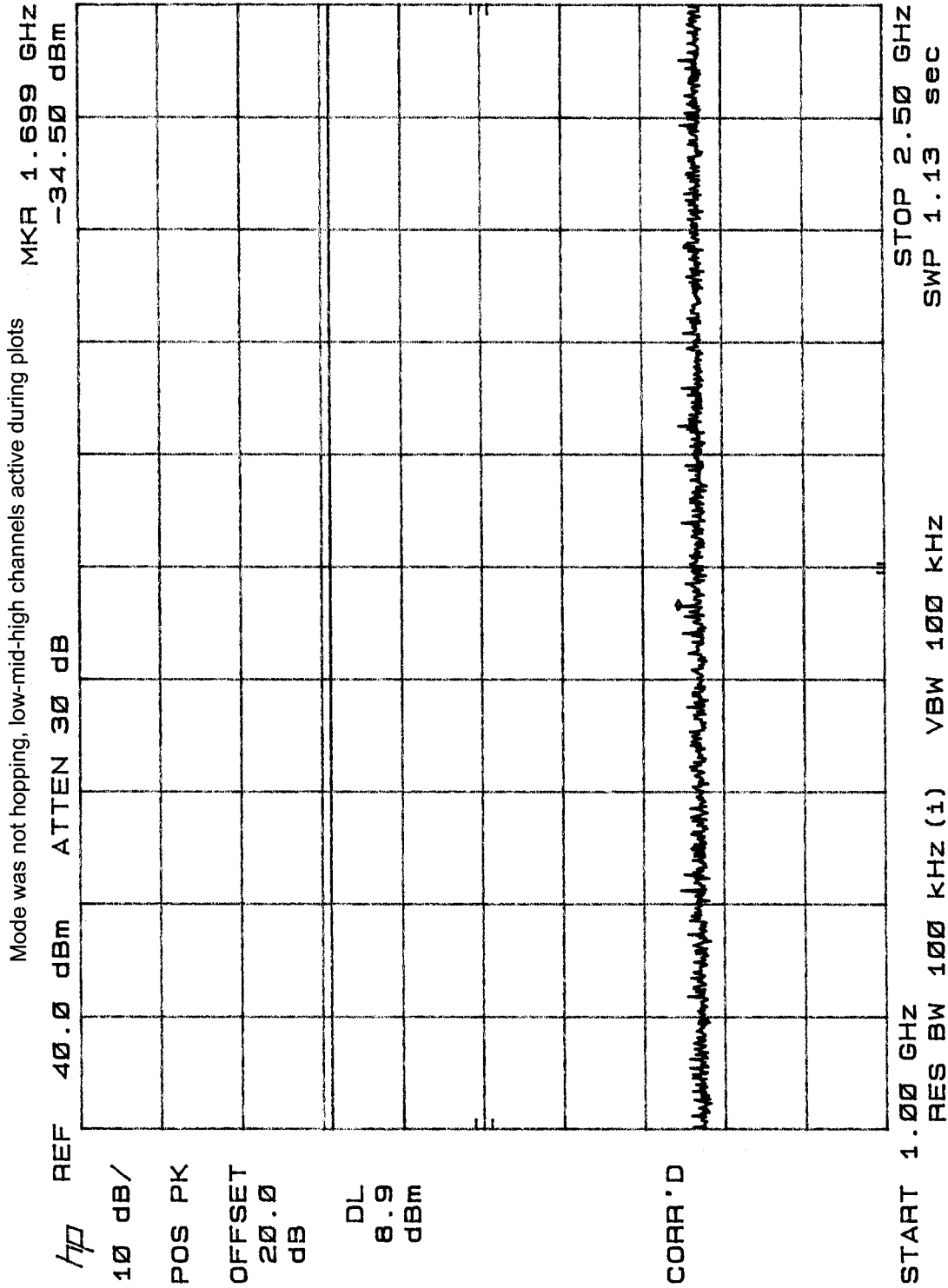


FCC Part 15.247(c): RF Conducted

Mode was not hopping, low-mid-high channels active during plots

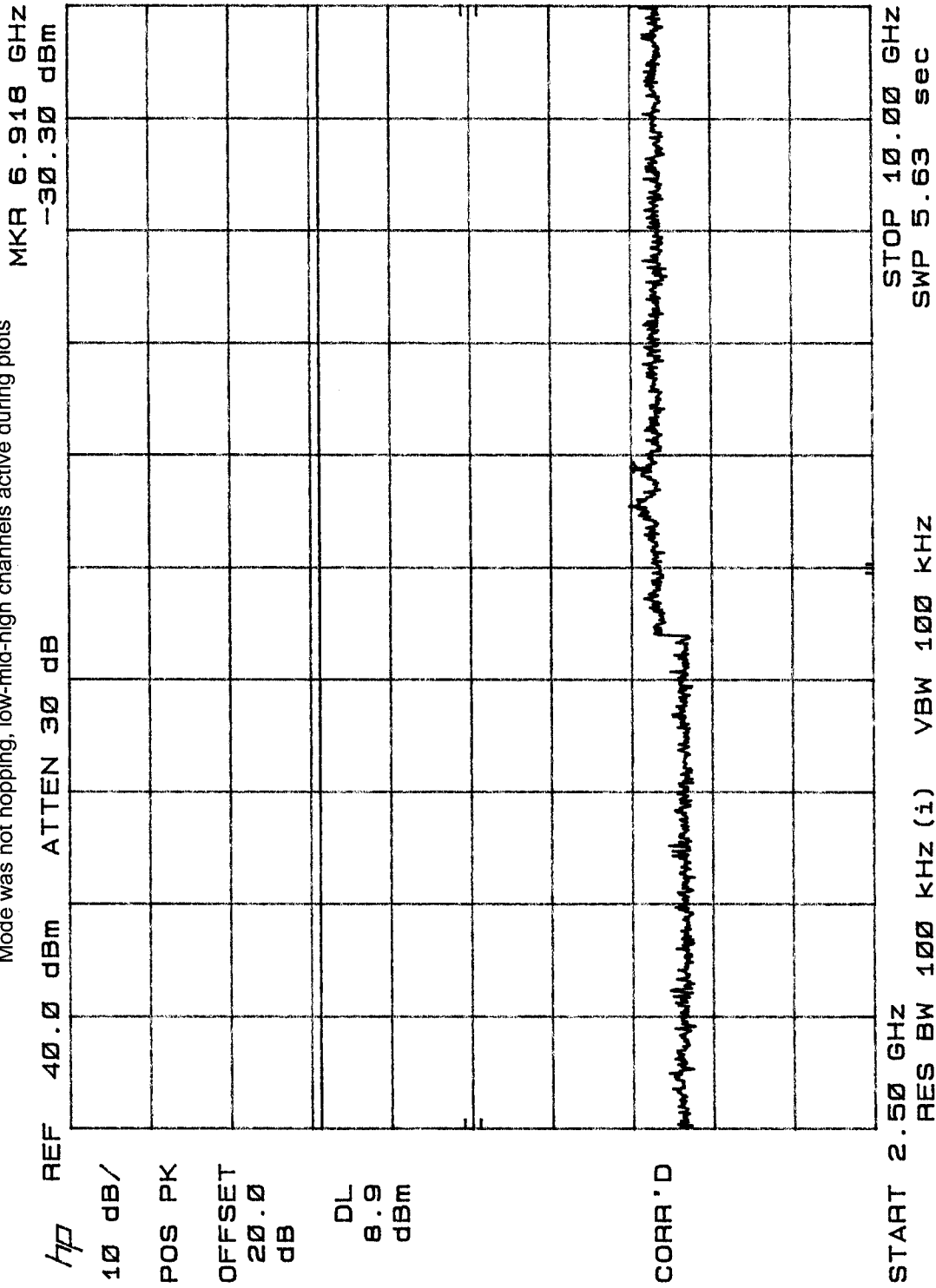


FCC Part 15.247(c): RF Conducted



FCC Part 15.247(c): RF Conducted

Mode was not hopping, low-mid-high channels active during plots



REPORT No: SI404266 T  
 CUSTOMER: Omnex Controls  
 E U T: OEM 900  
 EUT MODE: ~~Transmit~~ Receive Mode

TEST SITE: 2

BICONICAL: 739

LOG PERIODIC: 739

RCVR: 6732

DATE: 22-Oct-04 TESTED BY: C. Rickard

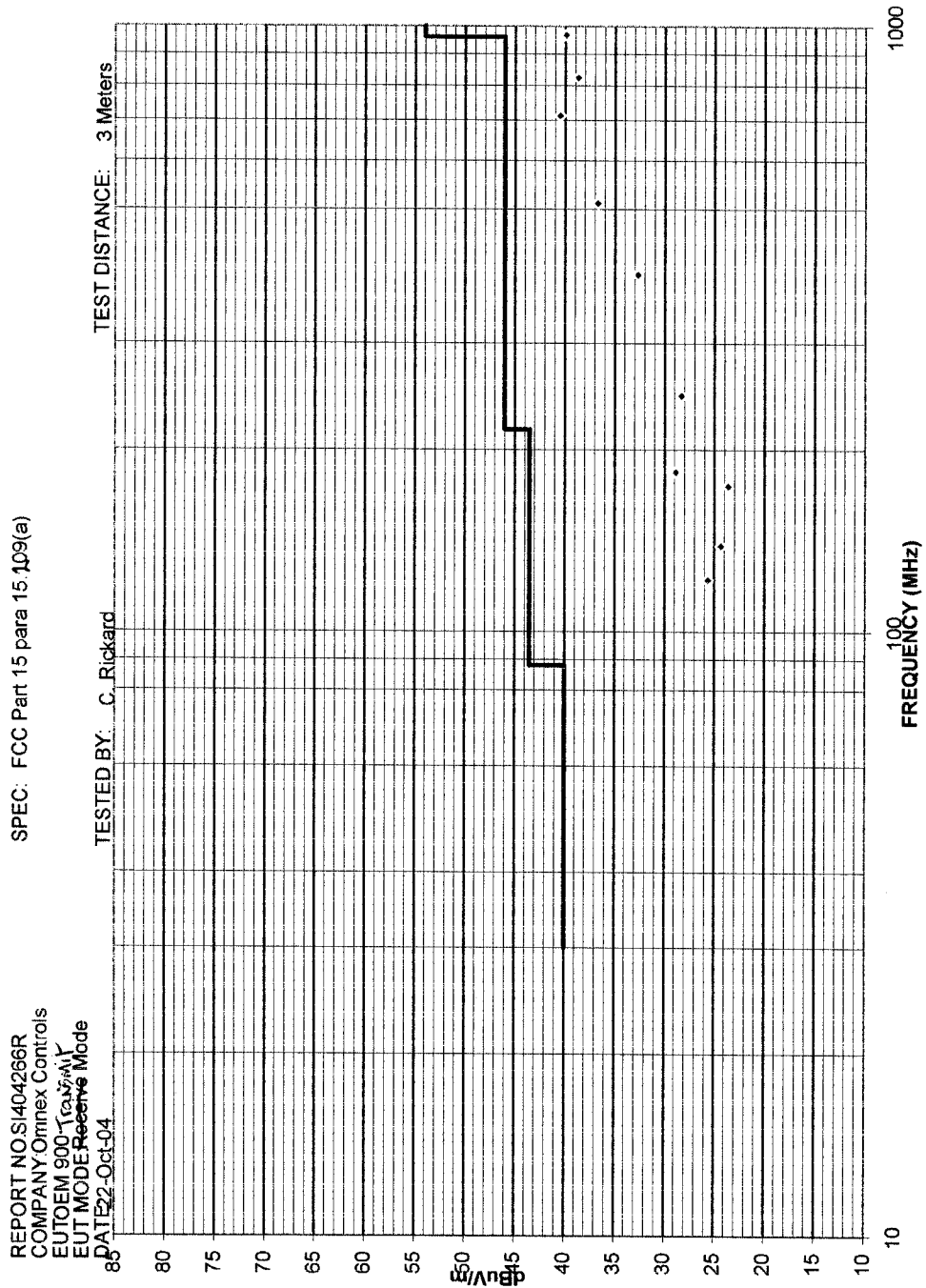
NOTES: Quasi-Peak with 120 KHz measurement bandwidth.

209

SPEC: FCC Part 15 para 15.409(a)

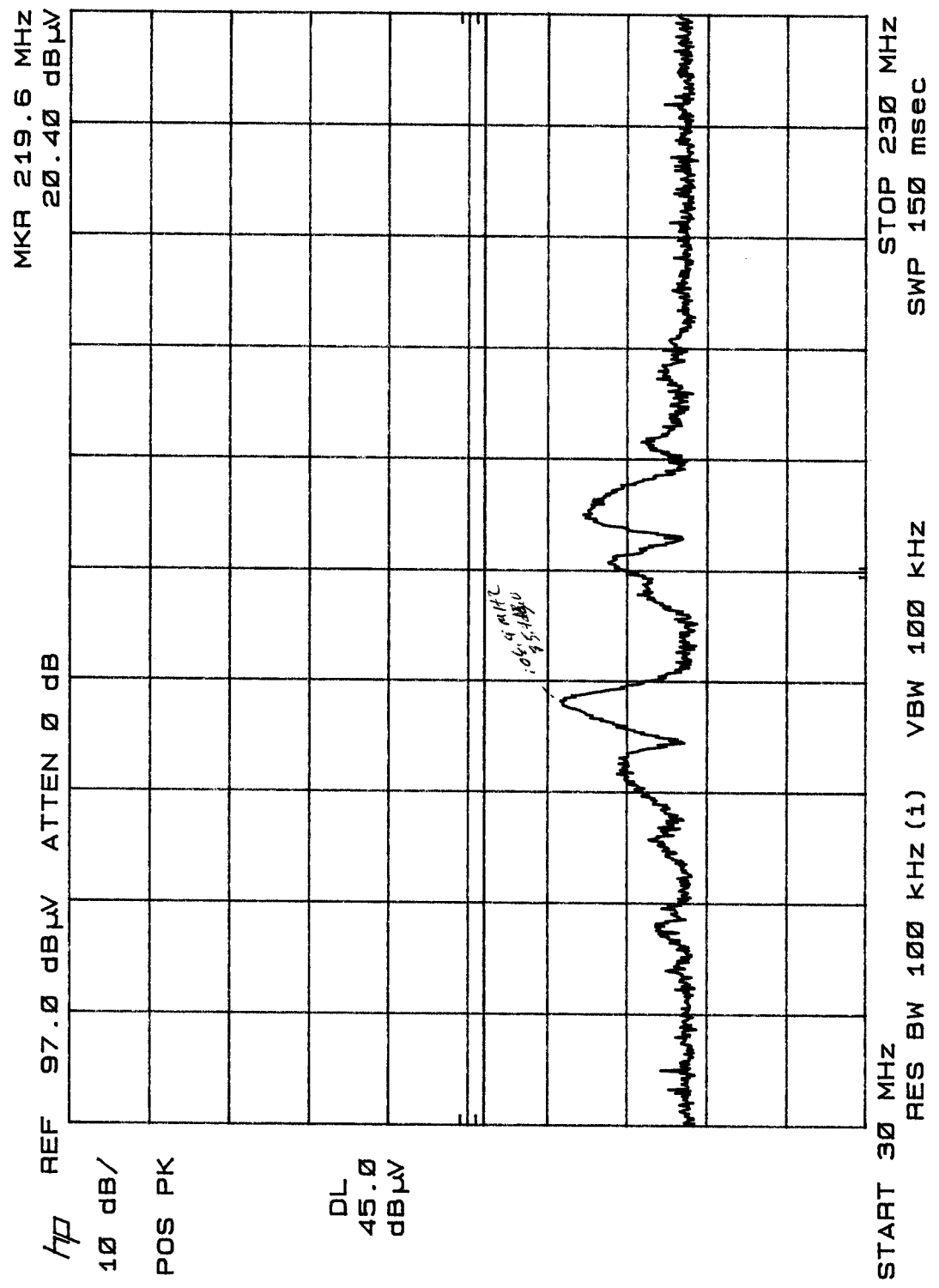
TEST DIST: 3 Meters

EUT MARGIN		dB at 712.1 MHz			Temperature: 20	Relative Humidity: 55%	ver 1.8b		
FREQUENCY (MHz)	VERTICAL measured (dBuV)	HORIZONTAL measured (dBuV)	CORRECTION FACTOR (dB/m)	MAXIMUM CORRECTED (dBuV/m)	SPECIFIED LIMIT (dBuV/m)	EUT MARGIN (dB)	EUT ROTATION (degrees)	ANTENNA HEIGHT (meters)	NOTE
122.00	11.1	11	14.6	25.7	43.5	-17.8	200	1	
138.80	11.9	11.7	12.5	24.4	43.5	-19.1	195	1	
174.30	11.5	11.6	12.0	23.6	43.5	-19.9	175	2.3	
184.10	13.9	16.4	12.5	28.9	43.5	-14.6	35	3.4	
245.60	11.9	11.9	16.4	28.3	46	-17.7	120	2.5	
389.50	13	13	19.7	32.7	46	-13.3	225	1	
511.30	13	12.9	23.7	36.7	46	-9.3	205	1	
712.10	13.1	13.2	27.3	40.5	46	-5.5	85	2.5	
823.00	9.3	9.2	29.4	38.7	46	-7.3	35	1	
966.50	9.5	9.5	30.4	39.9	54	-14.1	45	1	



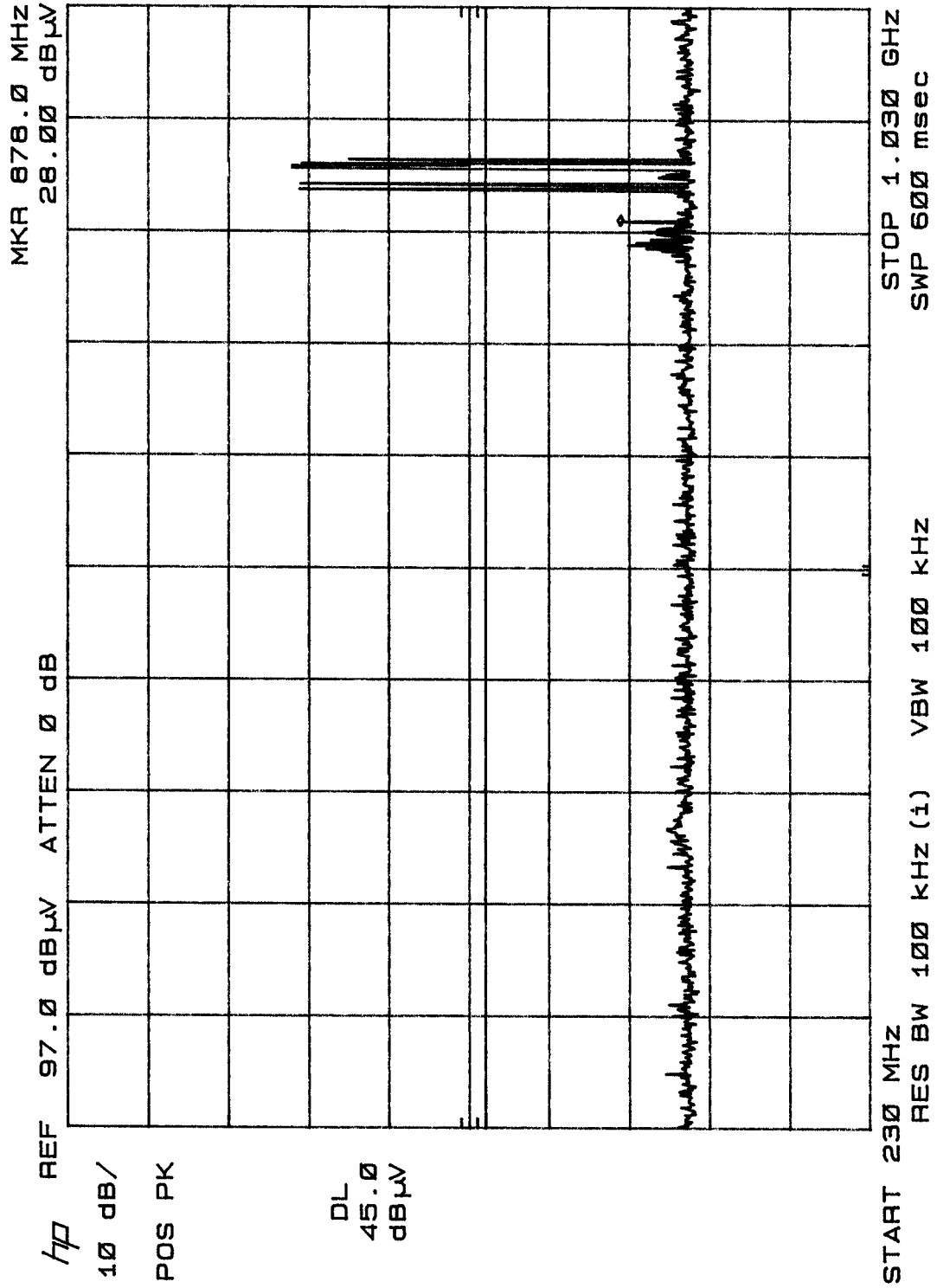
FCC Part 15.247(c): Radiated Spurious

EM-900 XAT



FCC Part 15.247(c): Radiated Spurious

DEM-900 xm1



REPORT No: SC404266-03 TESTER: Jim Owen SPEC: FCC Part 15 para 15.209(a)  
 CUSTOMER: Omnex Controls TEST DIST: 3 Meters  
 E U T: OEM-900 w/Whip Antenna Roof  
 EUT MODE: Xmt - 902MHz BICONICAL: N/A  
 DATE: October 22, 2004 LOG: N/A

NOTES:  
 OTHER: 251  
 above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG  
 below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG  
 CF = Antenna Factor + Cable Loss - Preamp/Amplifier Gain + Preselector Loss  
 \* DC Correction 8.27dB

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		CF (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height	Notes
	av	pk	pk	av		pk	av	pk	av	pk	av			
1365					-11.299	-11.3	-11	74	54					1300 to 1427 MHz - ambient
1530					-9.724	-9.72	-9.7	74	54					1435 to 1626.5 MHz - ambient
1685					-6.748	-6.75	-6.7	74	54					1660 to 1710 MHz - ambient
1720.5					-6.0684	-6.07	-6.1	74	54					1718.8 to 1722.2 MHz - ambient
2250					0.25	0.25	0.25	74	54					2200 to 2300 MHz - ambient
2390					0.782	0.782	0.78	74	54					2310 to 2390 MHz - ambient
2492					1.1696	1.17	1.17	74	54					2483.5 to 2500 MHz - ambient
2706.6	54	49.4	51	41.9	2.15036	56.15	43.3	74	54	-17.8	-10.7	348	1.1	2655 to 2900 MHz *
3264					4.5032	4.503	4.5	74	54					3260 to 3267 MHz - ambient
3335					4.773	4.773	4.77	74	54					3332 to 3339 MHz - ambient
3358					4.8604	4.86	4.86	74	54					3345.8 to 3358 MHz - ambient
3608.8	52	43.8	50.7	42.5	5.8352	57.84	41.4	74	54	-16.2	-12.6	346	1.1	3600 to 4400 MHz *
4511	50.9	43.4	50.5	40.8	5.5418	56.44	40.7	74	54	-17.6	-13.3	312	2	4500 to 5150 MHz *
5413.2	48.5	38.9	48.5	36.9	11.2841	59.78	41.9	74	54	-14.2	-12.1	350	2.1	5350 to 5460 MHz *
7500					15.7	15.7	15.7	74	54					7250 to 7750 MHz - ambient
8263					16.4578	16.46	16.5	74	54					8025 to 8500 MHz - ambient
9100					19.26	19.26	19.3	74	54					9000 to 9200 MHz - ambient



REPORT No: SC194266 TESTER: Jim Owen SPEC: FCC Part 15 para 15.209(a) CUSTOMER: Omnex Controls

EUT: OEM-900 w/Whip Antenna TEST SITE: Roof  
 EUT MODE: Xmt - 915MHz BICONICAL: N/A  
 DATE: October 22, 2004 LOG: N/A  
 TEST DIST: 3 Meters

NOTES: OTHER: 251  
 above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG  
 below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG  
 CF = Antenna Factor + Cable Loss - Preamp/plier Gain + Preselector Loss  
 \* DC Correction 8.27dB

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CF (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height	Notes
	av	pk	pk	av		pk	av	pk	av	pk	av			
1365					-11.299	-11.3	-11	74	54					1300 to 1427 MHz - ambient
1530					-9.724	-9.72	-9.7	74	54					1435 to 1626.5 MHz - ambient
1685					-6.748	-6.75	-6.7	74	54					1660 to 1710 MHz - ambient
1720.5					-6.0664	-6.07	-6.1	74	54					1718.8 to 1722.2 MHz - ambient
2250					0.25	0.25	0.25	74	54					2200 to 2300 MHz - ambient
2390					0.782	0.782	0.78	74	54					2310 to 2390 MHz - ambient
2492					1.1696	1.17	1.17	74	54					2483.5 to 2500 MHz - ambient
2744.6	59.6	55.6	54.5	49.1	2.32516	61.93	49.7	74	54	-12.1	-4.34	35	1	2655 to 2900 MHz *
3264					4.5032	4.503	4.5	74	54					3260 to 3267 MHz - ambient
3335					4.773	4.773	4.77	74	54					3332 to 3339 MHz - ambient
3358					4.8604	4.86	4.86	74	54					3345.8 to 3358 MHz - ambient
3659.6	50.2	42.1	49.2	39.4	6.0384	56.24	39.9	74	54	-17.8	-14.1	79	2	3600 to 4400 MHz *
4574.5	56.8	53.9	54	49.3	5.7831	62.58	51.4	74	54	-11.4	-2.59	255	1.6	4500 to 5150 MHz *
5405					11.207	11.21	11.2	74	54					5350 to 5460 MHz - ambient
7319.2	43.9	33.5	44.2	33.4	15.1938	59.39	40.4	74	54	-14.6	-13.6			7250 to 7750 MHz - ambient *
8234.1	45.3	35	44.5	35	16.4405	61.74	43.2	74	54	-12.3	-10.8			8025 to 8500 MHz - ambient *
9148.9	45.5	35.3	45.4	35.3	19.0448	64.54	46.1	74	54	-9.46	-7.93			9000 to 9200 MHz - ambient *

REPORT No: SC-04266-03  
 TESTER: Jim Cwen  
 SPEC: FCC Part 15 para 15.209(a)

CUSTOMER: Omnex Controls  
 TEST DIST: 3 Meters  
 E U T: OEM-900 w/Whip Antenna  
 TEST SITE: Roof  
 BICONICAL: N/A  
 EUT MODE: Xmt - 927.6MHz  
 LOG: N/A  
 DATE: October 22, 2004  
 OTHER: 251

NOTES:  
 above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG  
 below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG  
 CF = Antenna Factor + Cable Loss - Preamp Gain + Preselector Loss  
 \* DC Correction 8.27dB

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		CF (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)	EUT Rotation		Antenna Height	Notes
	av	pk	pk	av		pk	av	pk	av		pk	av		
1365														
1530					-11.299	-11.3	-11	74	54					1300 to 1427 MHz - ambient
1685					-9.724	-9.72	-9.7	74	54					1435 to 1626.5 MHz - ambient
1720.5					-6.748	-6.75	-6.7	74	54					1660 to 1710 MHz - ambient
2250					-6.0664	-6.07	-6.1	74	54					1718.8 to 1722.2 MHz - ambient
2390					0.25	0.25	0.25	74	54					2200 to 2300 MHz - ambient
2492					0.782	0.782	0.78	74	54					2310 to 2390 MHz - ambient
2782.7	59.1	57.7	52	45.4	1.1696	1.17	1.17	74	54	-12.4	-2.07	271	1	2483.5 to 2500 MHz - ambient
3264					2.50042	61.6	51.9	74	54					2655 to 2900 MHz *
3335					4.5032	4.503	4.5	74	54					3260 to 3267 MHz - ambient
3358					4.773	4.773	4.77	74	54					3332 to 3339 MHz - ambient
3710.3	49.7	40.3	47.7	39.4	4.8604	4.86	4.86	74	54					3345.8 to 3358 MHz - ambient
4637.9	50.4	45	48.1	42.4	6.2412	55.94	38.3	74	54	-18.1	-15.7	309	1.6	3600 to 4400 MHz *
5405					6.02402	56.42	42.8	74	54	-17.6	-11.2	268	1.5	4500 to 5150 MHz *
7420.7	42.2	32.3	41.8	32.3	11.207	11.21	11.2	74	54					5350 to 5460 MHz - ambient
8348.3	44.1	35.1	44.7	35.1	15.478	57.68	39.5	74	54	-16.3	-14.5			7250 to 7750 MHz - ambient *
9100					16.509	61.21	43.3	74	54	-12.8	-10.7			8025 to 8500 MHz - ambient *
					19.26	19.26	19.3	74	54					9000 to 9200 MHz - ambient

Report

REPORT No: 60494236  
 REPORT NUMBER: Jim Owen  
 SPEC: FCC Part 15 para 15.209(a)

CUSTOMER: Omnex Controls  
 TEST DIST: 3 Meters

E U T: OEM-900 w/Yagi Antenna  
 TEST SITE: Roof

EUT MODE: Xmt - 902MHz  
 BICONICAL: N/A

DATE: October 22, 2004  
 LOG: N/A

NOTES:  
 OTHER: 251

above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG  
 below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG  
 CF = Antenna Factor + Cable Loss - Preamp/Amplifier Gain + Preselector Loss  
 \* DC Correction 8.27dB

v.belata

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CF (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height	Notes
	pk	av	pk	av		pk	av	pk	av	pk	av			
1365					-11.299	-11.3	-11	74	54					1300 to 1427 MHz - ambient
1530					-9.724	-9.72	-9.7	74	54					1435 to 1626.5 MHz - ambient
1685					-6.748	-6.75	-6.7	74	54					1660 to 1710 MHz - ambient
1720.5					-6.0664	-6.07	-6.1	74	54					1718.8 to 1722.2 MHz - ambient
2250					0.25	0.25	0.25	74	54					2200 to 2300 MHz - ambient
2390					0.782	0.78	0.78	74	54					2310 to 2390 MHz - ambient
2492					1.1696	1.17	1.17	74	54					2483.5 to 2500 MHz - ambient
2706.6	55.8	52.8	53.3	46.1	2.15036	58	46.7	74	54	-16	-7.32	164	1	2685 to 2900 MHz *
3264					4.5032	4.5	4.5	74	54					3260 to 3267 MHz - ambient
3335					4.773	4.77	4.77	74	54					3332 to 3339 MHz - ambient
3358					4.8604	4.86	4.86	74	54					3345.8 to 3358 MHz - ambient
3608.8	46.6	35.9	48	36.8	5.8352	53.8	34.4	74	54	-20.2	-19.6	112	1.9	3600 to 4400 MHz *
4511	48.7	40.1	48.6	37.1	5.5418	54.2	37.4	74	54	-19.8	-16.6	352	2.4	4500 to 5150 MHz *
5413.2	46.6	37.2	45.9	35.3	11.2841	57.9	40.2	74	54	-16.1	-13.8	5	1.2	5350 to 5460 MHz *
7500					15.7	15.7	15.7	74	54					7250 to 7750 MHz - ambient
8263					16.4578	16.5	16.5	74	54					8025 to 8500 MHz - ambient
9100					19.26	19.3	19.3	74	54					9000 to 9200 MHz - ambient

REPORT No: SC404266-03 TESTER: Jim Owen SPEC: FCC Part 15 para 15.209(a)  
 CUSTOMER: Omnex Controls TEST DIST: 3 Meters  
 E U T: OEM-900 w/Yagi Antenna TEST SITE: Roof  
 EUT MODE: Xmt - 915MHz BICONICAL: N/A  
 DATE: October 22, 2004 LOG: N/A  
 OTHER: 251

NOTES:  
 above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG  
 below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG  
 CF = Antenna Factor + Cable Loss - Preamp/Filter Gain + Preselector Loss  
 \* DC Correction 8.27dB

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CF (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)	EUT Rotation	Antenna Height	Notes
	av	pk	pk	av		pk	av	pk	av				
1365						-11.299	-11.3	-11	74	54			1300 to 1427 MHz - ambient
1530						-9.724	-9.72	-9.7	74	54			1435 to 1626.5 MHz - ambient
1685						-6.748	-6.75	-6.7	74	54			1660 to 1710 MHz - ambient
1720.5						-6.0684	-6.07	-6.1	74	54			1718.8 to 1722.2 MHz - ambient
2250						0.25	0.25	0.25	74	54			2200 to 2300 MHz - ambient
2390						0.782	0.782	0.78	74	54			2310 to 2390 MHz - ambient
2492						1.1696	1.17	1.17	74	54			2483.5 to 2500 MHz - ambient
2744.6	57.1	55.7	51	47.1	2.32516	59.43	49.8	74	54	-14.6	4.24	5	2855 to 2900 MHz *
3264						4.5032	4.503	4.5	74	54			3260 to 3267 MHz - ambient
3335						4.773	4.773	4.77	74	54			3332 to 3339 MHz - ambient
3358						4.8604	4.86	4.86	74	54			3345.8 to 3358 MHz - ambient
3699.6	47.3	38	47.2	39.2	6.0384	53.34	37	74	54	-20.7	-17	175	3600 to 4400 MHz *
4574.5	50.4	41	48.9	38.6	5.7831	56.18	38.5	74	54	-17.8	-15.5	5	4500 to 5150 MHz *
5405						11.207	11.21	11.2	74	54			5350 to 5460 MHz - ambient *
7319.2	42.2	32.3	41.8	32.3	15.1938	57.39	39.2	74	54	-16.6	-14.8		7250 to 7750 MHz - ambient *
8234.1	44.1	35.1	44.7	35.1	16.4405	61.14	43.3	74	54	-12.9	-10.7		8025 to 8500 MHz - ambient *
9148.9	45.5	35.3	45.4	35.3	19.0448	64.54	46.1	74	54	-9.46	-7.93		9000 to 9200 MHz - ambient *

REPORT No: SC404266-03 TESTER: Jim Owen SPEC: FCC Part 15 para 15.209(a)

CUSTOMER: Omnex Controls TEST DIST: 3 Meters

E U T: OEM-900 w/Yagi Antenna TEST SITE: Roof

EUT MODE: Xmt - 927.6MHz BICONICAL: N/A

DATE: October 22, 2004 LOG: N/A

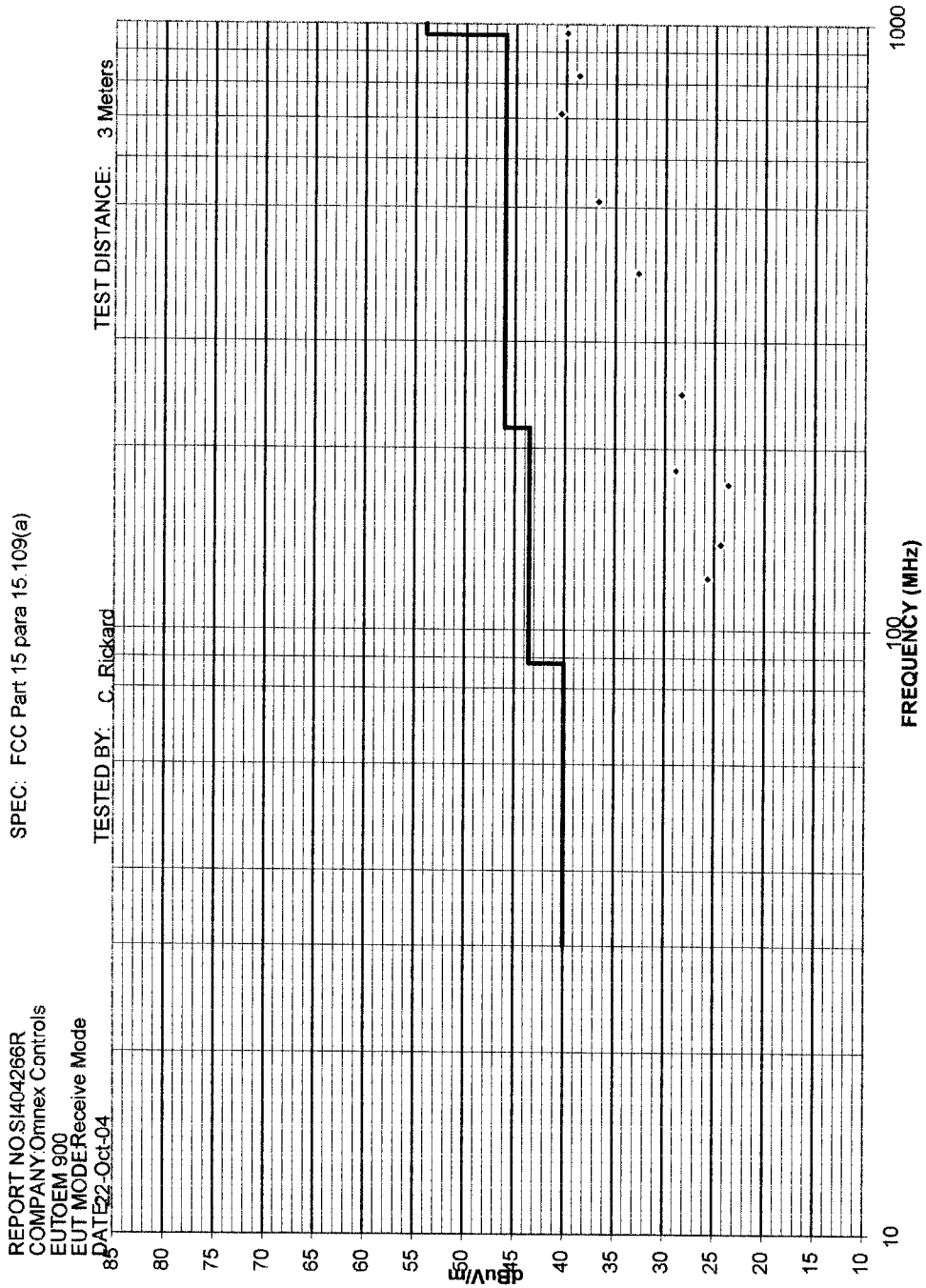
NOTES: OTHER: 251

above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG  
 below 1GHz: RBW & VBW 100 kHz for Pk; RBW 100kHz and VBW 10Hz for AVG  
 CF = Antenna Factor + Cable Loss - Pre-amplifier Gain + Preselector Loss

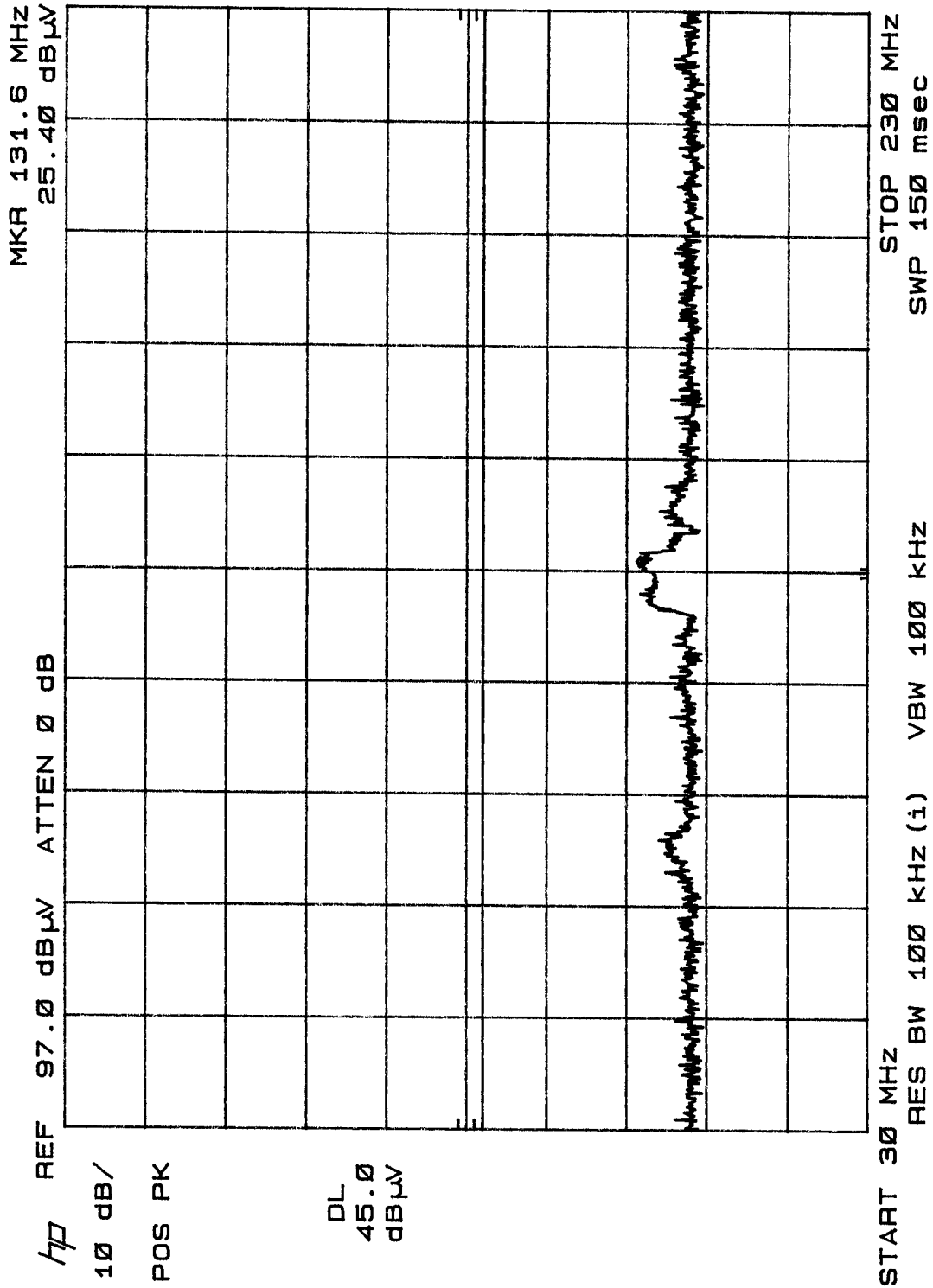
\* DC Correction 8.27dB

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		CF (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height	Notes
	av	pk	pk	av		pk	av	pk	av	av	pk			
1365					-11.299	-11.3	-11	74	54					1300 to 1427 MHz - ambient
1530					-9.724	-9.72	-9.7	74	54					1435 to 1626.5 MHz - ambient
1685					-6.748	-6.75	-6.7	74	54					1660 to 1710 MHz - ambient
1720.5					-6.0664	-6.07	-6.1	74	54					1718.8 to 1722.2 MHz - ambient
2250					0.25	0.25	0.25	74	54					2200 to 2300 MHz - ambient
2390					0.782	0.782	0.78	74	54					2310 to 2390 MHz - ambient
2492					1.1696	1.17	1.17	74	54					2483.5 to 2500 MHz - ambient
2782.7	60.6	59.2	53.3	49	2.50042	63.1	53.4	74	54	-10.9	-0.57	0	1	2655 to 2900 MHz *
3264					4.5032	4.503	4.5	74	54					3260 to 3267 MHz - ambient
3335					4.773	4.773	4.77	74	54					3332 to 3339 MHz - ambient
3358					4.8604	4.86	4.86	74	54					3345.8 to 3358 MHz - ambient
3710.3	51.8	46.4	50.3	43.9	6.2412	58.04	44.4	74	54	-16	-9.63	155	1.7	3600 to 4400 MHz *
4637.9	52	46.9	50.2	43	6.02402	58.02	44.7	74	54	-16	-9.35	300	1.7	4500 to 5150 MHz *
5405					11.207	11.21	11.2	74	54					5350 to 5460 MHz - ambient
7420.7	44.7	33.9	43.7	33.2	15.478	60.18	41.1	74	54	-13.8	-12.9			7250 to 7750 MHz - ambient *
8348.3	48	39.4	47	35.8	16.509	64.51	47.6	74	54	-9.49	-6.36			8025 to 8500 MHz - ambient *
9100					19.26	19.26	19.3	74	54					9000 to 9200 MHz - ambient



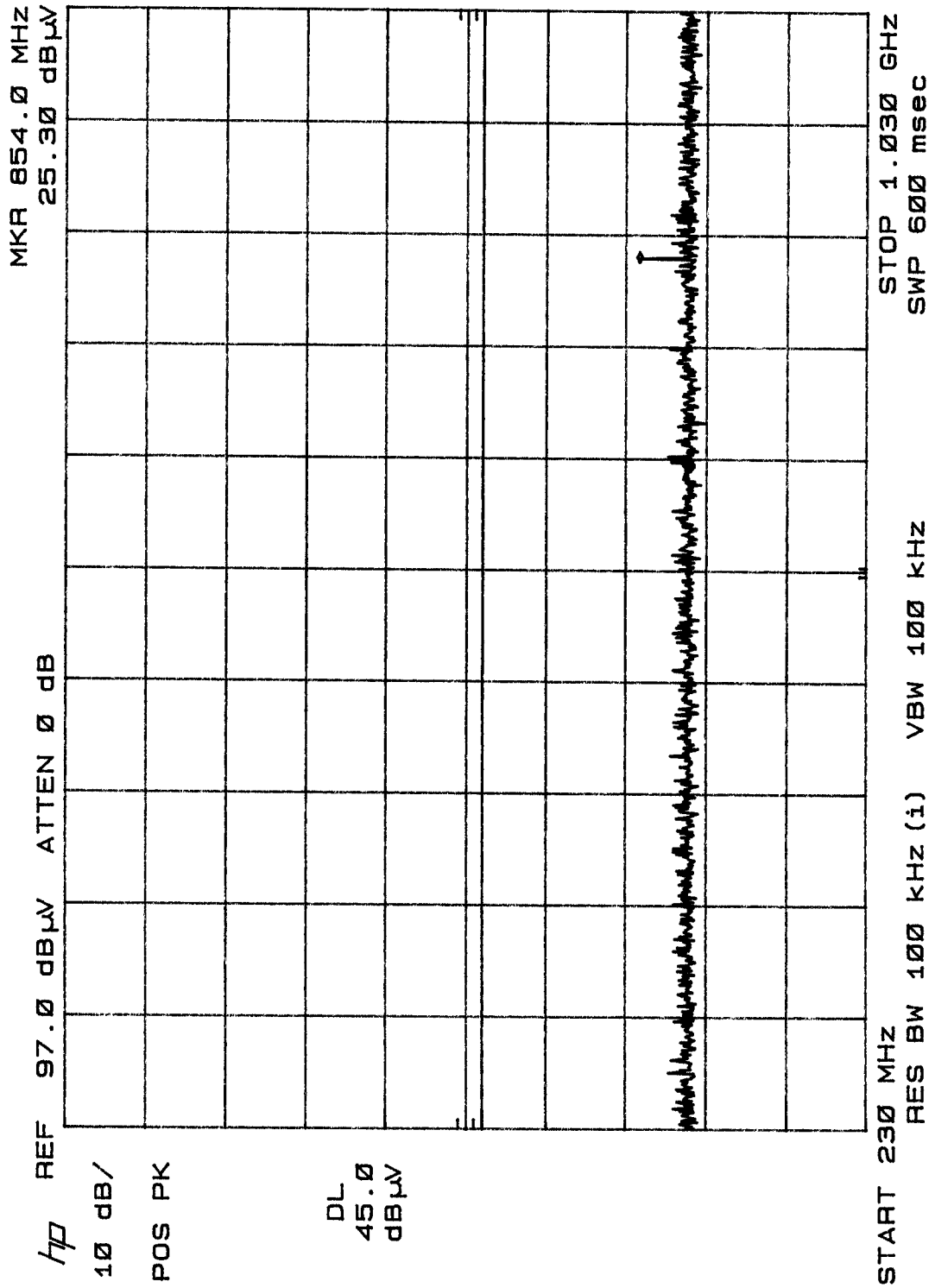


*DEM 900*  
FCC Part 15.109(a): Radiated Emissions (Prescans)





*OEM 900 Rec'd* FCC Part 15.109(a): Radiated Emissions (Prescans)



**4.0 ATTESTATION STATEMENT**

**GENERAL REMARKS:**

(\*) Number of Hopping Frequencies - A RBW of 100 kHz was used to clearly depict the number of channels.

**SUMMARY:**

All tests were performed per CFR 47, Part(s) **15.109(a), 15.209(a), 15.247(a), 15.247(b), and 15.247(c)**

■ - Performed\*

The Equipment Under Test

■ - **Fulfills** the requirements of CFR 47, Part(s) **15.109(a), 15.209(a), 15.247(a)\*, 15.247(b), and 15.247(c)**

Testing Start Date: 22 October 2004

Testing End Date: 22 October 2004

**- TÜV AMERICA, INC. -**

Responsible Engineer:



Jim Owen  
(EMC Manager)



Chuck Rickard  
(EMC Engineer)