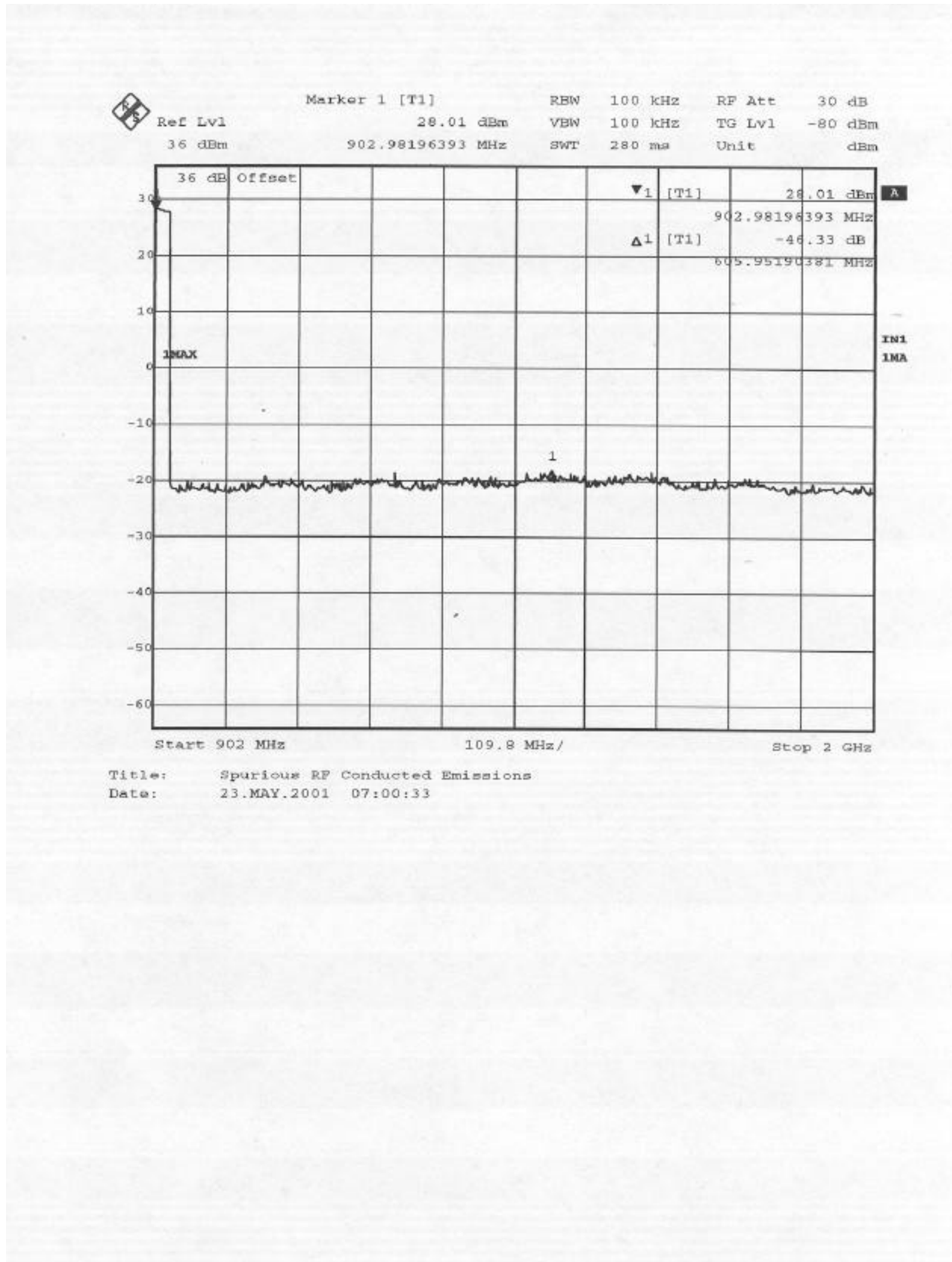
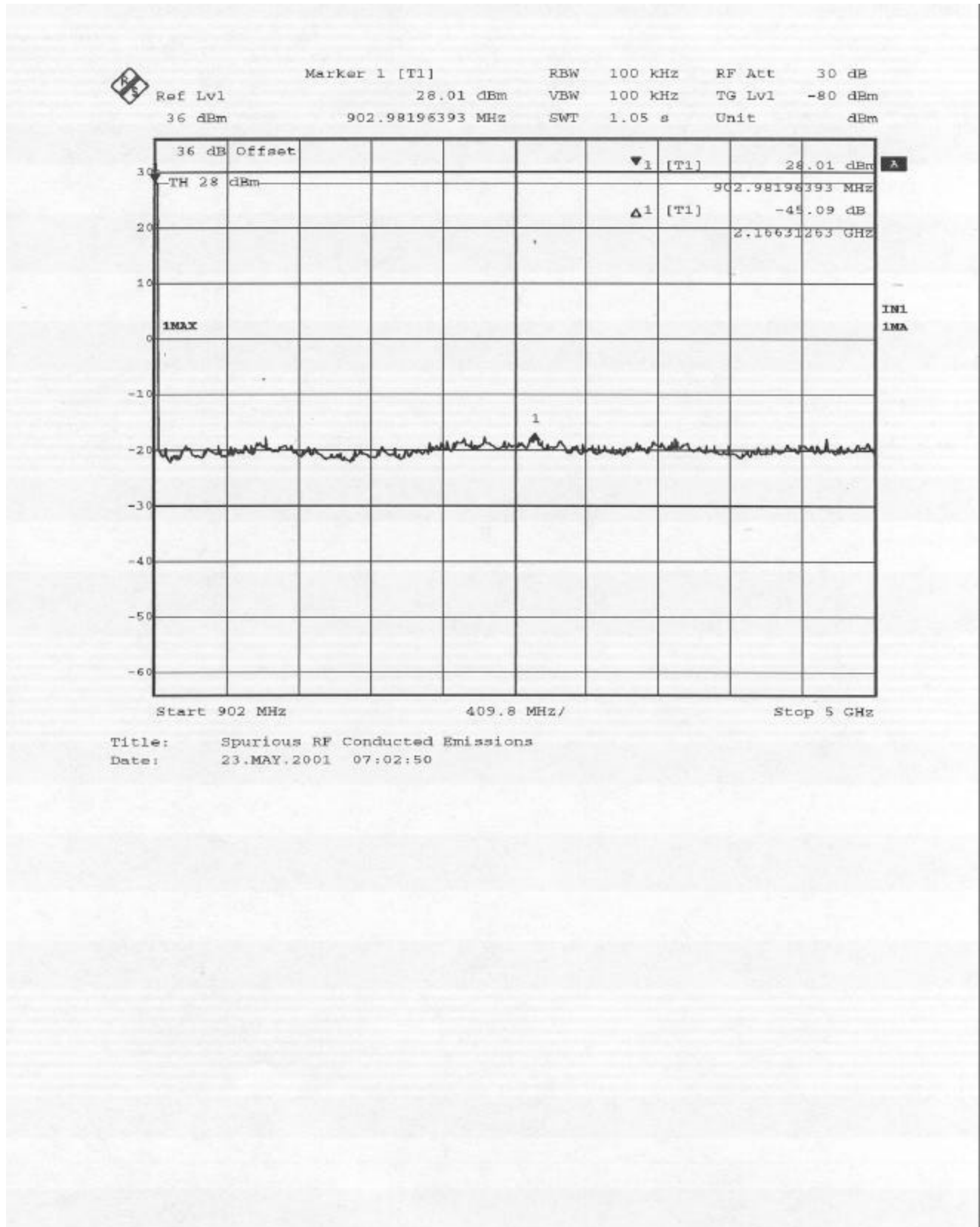


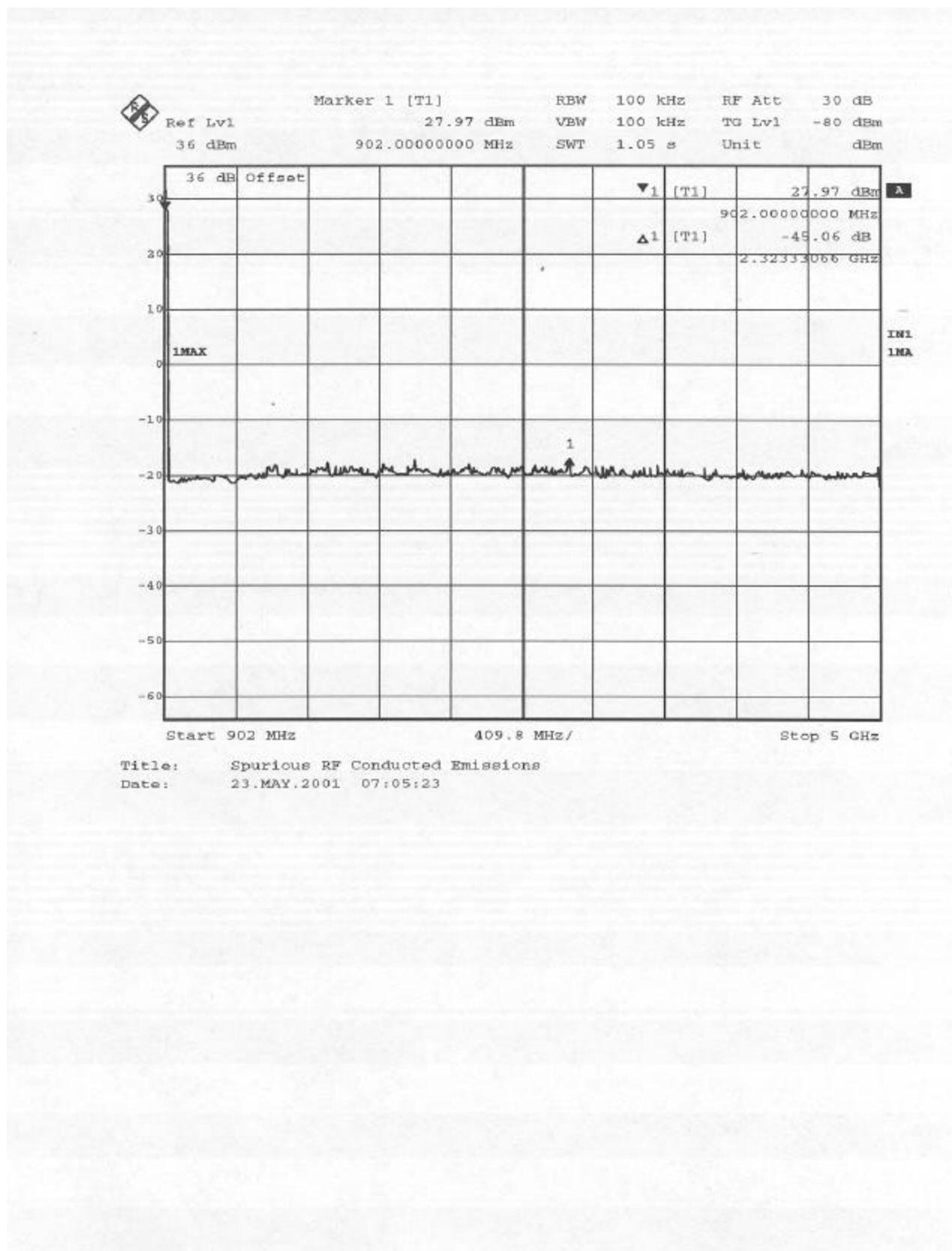
File Number: BP7169
Project Number: 01ME05266
Model Number: LR-911

Issued: August 15, 2001

FCC ID # OGSLR911







2.2.2 Radiated Emissions Test (10 Meter Semi-Anechoic Chamber):

Test Applicable **Test Not Applicable**

Measurement distance: 3 10 meters

Frequency Range: 9kHz - 30MHz Magnetic Electric
 30MHz - 1000MHz Electric
 1GHz - 2GHz Electric
 1GHz - 5GHz Electric
 1GHz - 7.5GHz Electric
 1GHz - 10GHz Electric

Test equipment used for final radiated emissions tests:

HP 8574A **Hewlett-Packard** **EMI Receiver,** **Equipment No.: ME5A-461**
Range: 10KHz-1GHz Last Calibration Date: 01/27/2001 Calibration Due Date: 01/27/2002

Consisting of:

HP - 8566B	Hewlett-Packard	Spectrum Analyzer,
	Resolution BW: 1MHz	
	Video BW: 1MHz	
HP - 85662A	Hewlett-Packard	Analyzer Display
HP - 85650A	Hewlett-Packard	Quasi-Peak Adapter,
	BW: 120kHz	
HP - 85685A	Hewlett-Packard	Preselector

For Measurements above 1GHz:

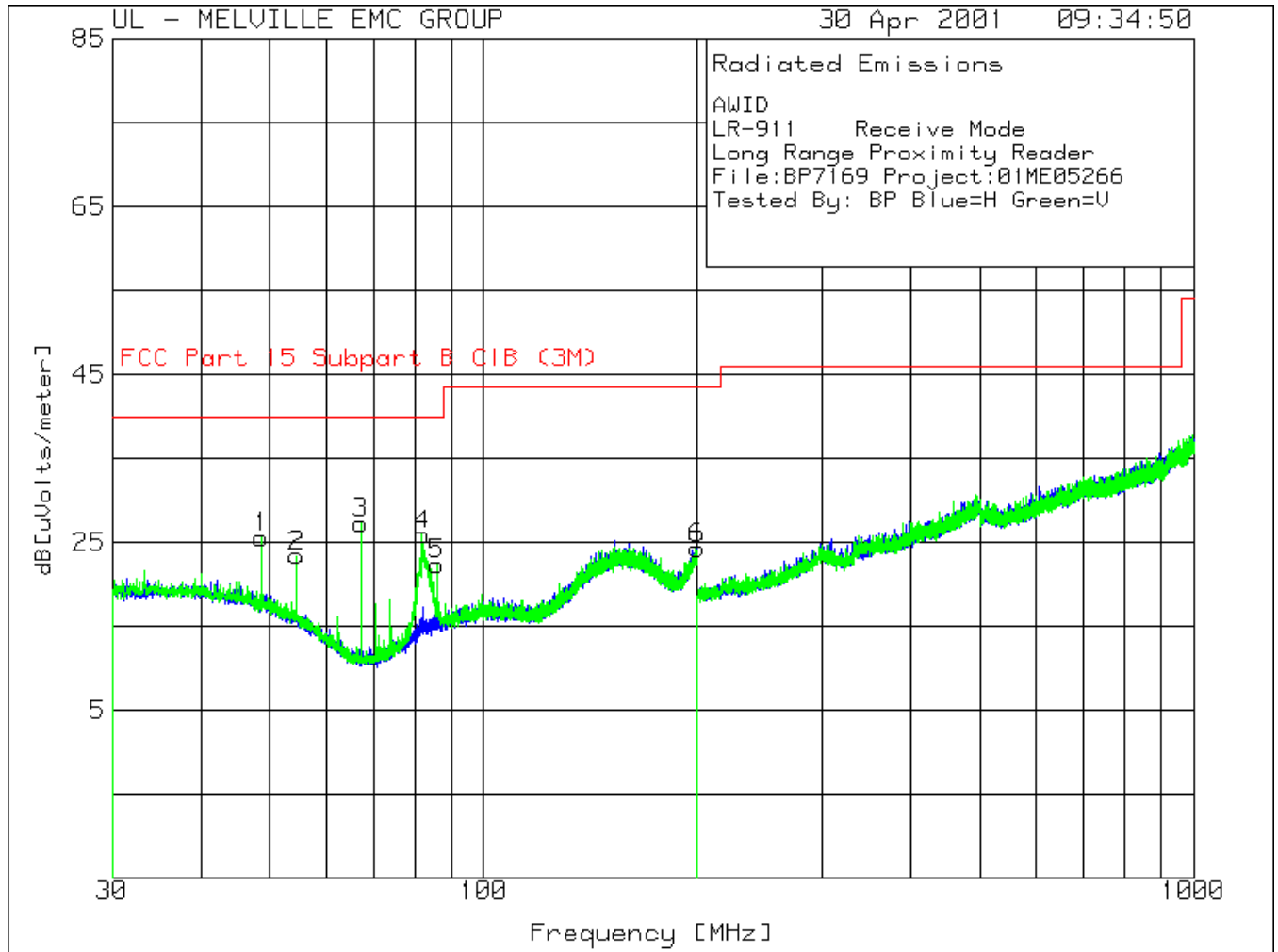
HP - 8566B **Hewlett-Packard** **Spectrum Analyzer,** **Equipment No.: ME5A-461**
 Resolution BW: 1MHz
 Video BW: 1MHz

Range: 1-10GHz Last Calibration Date: 01/27/2001 Calibration Due Date: 01/27/2002

HP - 85662A **Hewlett-Packard** **Analyzer Display** **Equipment No. ME5A-461**
Last Calibration Date: 01/27/2001 Calibration Due Date: 01/27/2002

Test Accessories for Radiated Emissions:

<input checked="" type="checkbox"/> 94455-1	Ailtech	Biconnical Antenna	Equipment No.: ME5-439
Last Calibration Date: 09/28/2000		Calibration Due Date: 09/28/2001	
<input checked="" type="checkbox"/> 3146	EMCO	Log Periodic Antenna	Equipment No.: ME5-451
Last Calibration Date: 09/26/2000		Calibration Due Date: 09/26/2001	
<input checked="" type="checkbox"/> NRVD	Rohde & Schwarz	Power Meter	Equipment No.: ME5A-681
Last Calibration Date: 11/08/2000		Calibration Due Date: 11/08/2001	
<input checked="" type="checkbox"/> NRV-Z51	Rohde & Schwarz	Power Sensor	Equipment No.: ME5A-715
Last Calibration Date: 11/08/2000		Calibration Due Date: 11/08/2001	
<input checked="" type="checkbox"/> 440918	Conecticut Microwave	Directional Coupler	Equipment No.: ME7A-490
<input checked="" type="checkbox"/> 3121C-DB4	Electro-Metrics	Dipole Antenna	Equipment No.: 9111-771
Last Calibration Date: 07/10/2000		Calibration Due Date: 07/10/2001	
<input checked="" type="checkbox"/> RGA-180	EMCO	Horn Antenna	Equipment No.: ME5-565
Last Calibration Date: 05/03/2000		Calibration Due Date: 05/03/2001	
<input checked="" type="checkbox"/> 8449B	Hewlett Packard	1-26GHz Pre-Amp	Equipment No.: ME5-914
<input checked="" type="checkbox"/> 25S1G4A	AR	0.8 -4.2GHz Amplifier	Equipment No.: ME7A-492



File Number: BP7169
 Project Number: 01ME05266
 Model Number: LR-911

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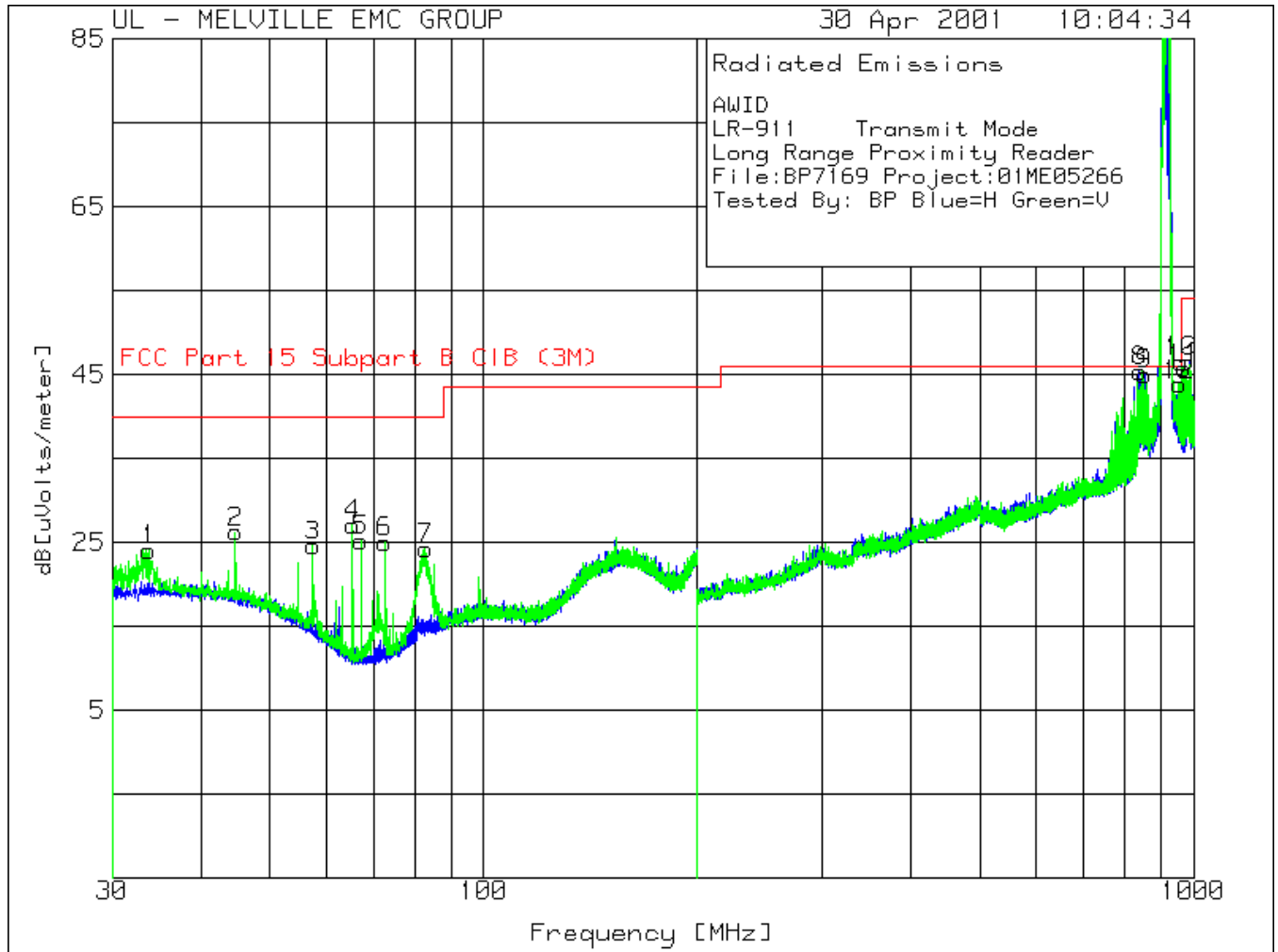
AWID

LR-911 Receive Mode
 Long Range Proximity Reader
 File:BP7169 Project:01ME05266
 Tested By: BP Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4
1	48.6435	12.4 pk	1	12.2	25.6	40	N/A	N/A	N/A
	Azimuth: 334	Height:98	Vert	Margin [dB]	-14.4	N/A	N/A	N/A	N/A
2	54.5041	11.9 pk	1.1	10.4	23.4	40	N/A	N/A	N/A
	Azimuth: 290	Height:201	Vert	Margin [dB]	-16.6	N/A	N/A	N/A	N/A
3	67.1596	20.5 pk	1.2	5.6	27.3	40	N/A	N/A	N/A
	Azimuth: 357	Height:300	Vert	Margin [dB]	-12.7	N/A	N/A	N/A	N/A
4	81.8961	15.9 pk	1.3	8.7	25.9	40	N/A	N/A	N/A
	Azimuth: 150	Height:98	Vert	Margin [dB]	-14.1	N/A	N/A	N/A	N/A
5	86.058	11.4 pk	1.3	9.7	22.4	40	N/A	N/A	N/A
	Azimuth: 357	Height:98	Vert	Margin [dB]	-17.6	N/A	N/A	N/A	N/A
6	199.8726	5.3 pk	2	17	24.3	43.5	N/A	N/A	N/A
	Azimuth: 246	Height:300	Horz	Margin [dB]	-19.2	N/A	N/A	N/A	N/A

LIMIT 1: FCC Part 15 Subpart B ClB (3M)
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 tm - Trace Math Result



File Number: BP7169
 Project Number: 01ME05266
 Model Number: LR-911

Issued: August 15, 2001

FCC ID # OGSLR911

AWID

LR-911 Transmit Mode
 Long Range Proximity Reader
 File: BP7169 Project: 01ME05266
 Tested By: BP Blue=H Green=V

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB]	Limit:1 [dB]	2	3	4
1	33.7797	9.2 pk	.9	14	24.1	40	N/A	N/A	N/A
Azimuth: 291		Height: 98	Vert	Margin	[dB]	-15.9	N/A	N/A	N/A
2	44.6515	12.1 pk	1	13.1	26.2	40	N/A	N/A	N/A
Azimuth: 203		Height: 98	Vert	Margin	[dB]	-13.8	N/A	N/A	N/A
3	57.4769	14.4 pk	1.1	9.1	24.6	40	N/A	N/A	N/A
Azimuth: 335		Height: 201	Vert	Margin	[dB]	-15.4	N/A	N/A	N/A
4	65.291	20.2 pk	1.1	5.8	27.1	40	N/A	N/A	N/A
Azimuth: 225		Height: 201	Vert	Margin	[dB]	-12.9	N/A	N/A	N/A
5	67.1172	18.4 pk	1.2	5.6	25.2	40	N/A	N/A	N/A
Azimuth: 247		Height: 201	Vert	Margin	[dB]	-14.8	N/A	N/A	N/A
6	72.5106	17.8 pk	1.2	6	25	40	N/A	N/A	N/A
Azimuth: 289		Height: 98	Vert	Margin	[dB]	-15	N/A	N/A	N/A
7	82.7454	14.1 pk	1.3	8.9	24.3	40	N/A	N/A	N/A
Azimuth: 151		Height: 98	Vert	Margin	[dB]	-15.7	N/A	N/A	N/A
8	838.6678	17.8 pk	4.3	23.3	45.4	46	N/A	N/A	N/A
Azimuth: 145		Height: 201	Horz	Margin	[dB]	-.6	N/A	N/A	N/A
9	854.6545	17.2 pk	4.4	23.4	45	46	N/A	N/A	N/A
Azimuth: 127		Height: 201	Horz	Margin	[dB]	-1	N/A	N/A	N/A
10	960.5662	16.9 pk	4.6	25	46.5	54	N/A	N/A	N/A
Azimuth: 221		Height: 98	Vert	Margin	[dB]	-7.5	N/A	N/A	N/A
11	968.5595	16.1 pk	4.7	24.9	45.7	54	N/A	N/A	N/A
Azimuth: 324		Height: 98	Vert	Margin	[dB]	-8.3	N/A	N/A	N/A
12	954.1715	14.1 pk	4.6	25.1	43.8	46	N/A	N/A	N/A
Azimuth: 238		Height: 98	Vert	Margin	[dB]	-2.2	N/A	N/A	N/A

LIMIT 1: FCC Part 15 Subpart B ClB (3M)
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector

File Number: BP7169
Project Number: 01ME05266
Model Number: LR-911

Issued: August 15, 2001

FCC ID # OGSLR911

AWID
LR-911 Transmit Mode
Long Range Proximity Reader
File:BP7169 Project:01ME05266
Tested By: BP Blue=H Green=V

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4
Frequency	Reading	Factor	Factor		dB[uVolts/meter]			
[MHz]	[dB(uV)]	[dB]	[dB]					
838.66	3.05	qp	4.3	23.3	30.65	46	N/A	N/A
Azimuth: 213	Height:146	Horz	Margin [dB]	-15.35	N/A	N/A	N/A	N/A
854.65	9.91	qp	4.4	23.4	37.71	46	N/A	N/A
Azimuth: 4	Height:135	Horz	Margin [dB]	-8.29	N/A	N/A	N/A	N/A
954.044	10.61	qp	4.6	25.1	40.31	46	N/A	N/A
Azimuth: 0	Height:115	Vert	Margin [dB]	-5.69	N/A	N/A	N/A	N/A

LIMIT 1: FCC Part 15 Subpart B ClB (3M)
LIMIT 2: NONE
LIMIT 3: NONE
LIMIT 4: NONE

pk - Peak detector
qp - Quasi-Peak detector
av - Average detector

