

## **CERTIFICATE OF COMPLIANCE** **FCC PART 22.901(d) CERTIFICATION**

### **Test Lab:**

**CELLTECH RESEARCH INC.**  
Testing and Engineering Services  
1955 Moss Court  
Kelowna, B.C.  
Canada V1Y 9L3  
Phone: 250 - 860-3130  
Fax: 250 - 860-3110  
Toll Free: 1-877-545-6287  
e-mail: info@celltechlabs.com  
web site: www.celltechlabs.com

### **Applicant Information:**

**DOWTELECOM INC.**  
4<sup>th</sup> Floor, Woosong Bldg.,  
361-10, Yatap-Dong,  
Buandang-Gu, Seongnam-Si,  
Gyeonggi-Do, Korea 463-828

<b>FCC Classification:</b>	<b>Licensed Non-Broadcast Station Transmitter (TNB)</b>
<b>FCC Rule Part(s):</b>	<b>§22.901(d), §2</b>
<b>FCC ID:</b>	<b>PUNDTT-800</b>
<b>Model(s):</b>	<b>DTT-800</b>
<b>Equipment Type:</b>	<b>Cellular CDMA Wireless Local Loop Terminal</b>
<b>Tx Frequency Range:</b>	<b>824.70 - 848.31 MHz</b>
<b>Rx Frequency Range:</b>	<b>869.70 - 893.31 MHz</b>
<b>Max. RF Output Power:</b>	<b>0.307 Watts (ERP)</b>
<b>Frequency Tolerance:</b>	<b>0.5 PPM</b>
<b>Emission Designator:</b>	<b>1M25F9W</b>

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Celltech Research Inc. certifies that no party to this application has been denied FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).



**Shawn McMillen**  
**General Manager**  
**Celltech Research Inc.**



## **TABLE OF CONTENTS**

<b>1.1 GENERAL INFORMATION</b>	<b>1</b>
<b>2.1 MEASUREMENT PROCEDURES</b>	<b>2</b>
<b>Occupied Bandwidth (2.1049)</b>	<b>2</b>
<b>Spurious Emissions at Antenna Terminal (2.1051)</b>	<b>2</b>
<b>Radiated Spurious &amp; Harmonic Emissions (2.1053)</b>	<b>2</b>
<b>Frequency Stability/Temperature Variation (2.1055)</b>	<b>3</b>
<b>3.1 TEST DATA</b>	<b>4</b>
<b>Effective Radiated Power Output</b>	<b>4</b>
<b>Field Strength of Spurious Radiation</b>	<b>5-7</b>
<b>Frequency Stability</b>	<b>8-9</b>
<b>4.1 LIST OF TEST EQUIPMENT</b>	<b>10</b>
<b>5.1 CONCLUSION</b>	<b>11</b>

## **MEASUREMENT REPORT - FCC PART 22.901(d)**

### **1.1 SCOPE**

Measurement and determination of electromagnetic emissions (EME) from radio frequency devices for compliance with the technical rules and regulations of the Federal Communications Commission.

### ***§2.1033(a) General Information***

#### **APPLICANT:**

**DOWTELECOM INC.  
4<sup>th</sup> Floor, Woosong Bldg., 361-10, Yatap-Dong,  
Buandang-Gu, Seongnam-Si,  
Gyeonggi-Do, Korea 463-828**

<b>FCC ID</b>	<b>PUNDTT-800</b>
<b>Model(s)</b>	<b>DTT-800</b>
<b>EUT Type</b>	<b>Cellular CDMA Wireless Local Loop Terminal</b>
<b>FCC Classification</b>	<b>Licensed Non-Broadcast Station Transmitter (TNB)</b>
<b>FCC Rule Part(s)</b>	<b>§22.901(d), §2</b>
<b>Max. RF Output Power</b>	<b>0.307 Watts (ERP)</b>
<b>Tx Freq. Range</b>	<b>824.70 - 848.31 MHz</b>
<b>Rx Freq. Range</b>	<b>869.70 - 893.31 MHz</b>
<b>Emission Designator</b>	<b>1M25F9W</b>
<b>Modulation</b>	<b>CDMA</b>
<b>Power Supply</b>	<b>1.9VDC 1.3A AC/DC Power Adapter (DOWTEL Model: SIH-1309WN) 2. Internal Battery Backup</b>

## **2.1 MEASUREMENT PROCEDURES**

### **2.2 OCCUPIED BANDWIDTH - §2.1049**

The antenna output terminal of the EUT was connected to the input of a 50Ω spectrum analyzer through a matched 30dB attenuator. The radio transmitter was operating at maximum output power with and without internal data modulation. 100% of the in-band modulation was below the specified mask per §22.917.

Specified Limits:

- (a) On any frequency removed from the assigned carrier frequency by more than 20kHz, up to and including 45kHz, the sideband was at least 26dB below the carrier.
- (b) On any frequency removed from the assigned carrier frequency by more than 45kHz, up to and including 90kHz, the sideband was at least 45dB below the carrier.
- (c) On any frequency removed from the assigned carrier frequency by more than 90kHz, up to the first multiple of the carrier frequency, the sideband was at least 60dB below the carrier of  $40 + \log_{10}$  (mean power output in Watts) dB, whichever was the smaller attenuation.

### **2.3 SPURIOUS EMISSIONS AT ANTENNA TERMINAL - §2.1051**

The level of the carrier and the various conducted spurious frequencies was measured by means of a calibrated spectrum analyzer. The antenna output terminal of the EUT was connected to the input of a 50Ω spectrum analyzer through a matched 30dB attenuator and coaxial cable. The transmitter was operating at maximum power with internal data modulation.

### **2.4 RADIATED SPURIOUS AND HARMONIC EMISSIONS - §2.1053**

Radiated and harmonic emissions above 1 GHz were measured at our 3-meter outdoor site. The EUT was placed on the turntable with the transmitter transmitting into a non-radiating load. A receiving antenna located 3 meters from the turntable received any signal radiated from the transmitter and its operating accessories. The receiving antenna was varied from 1 to 4 meters and the polarization was varied to determine the worst-case emission level.

## ***2.5 FREQUENCY STABILITY / TEMPERATURE VARIATION - §2.1055***

### Minimum Standard:

The minimum frequency stability shall be  $\pm 0.00005\%$  ( $\pm 300\text{Hz}$ ) referenced to a received carrier frequency from a base station. This meets the requirement for operational accuracy of 0.00005% for digital mode.

### Measurement Method:

The frequency stability of the transmitter was measured by:

1. Temperature: The temperature was varied from  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  at intervals no more than  $10^{\circ}\text{C}$  throughout the temperature range using an environmental chamber. A period of time sufficient to stabilize all of the components in the equipment shall be allowed prior to each frequency measurement.
2. Primary Supply Voltage: The primary supply voltage was varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied. The EUT was tested down to the battery endpoint .

### Time Period and Procedure:

1. The carrier frequency of the transmitter was measured at room temperature ( $25^{\circ}\text{C}$  to  $27^{\circ}\text{C}$  to provide a reference).
2. The equipment was subjected to an overnight “soak” at  $-30^{\circ}\text{C}$  without any power applied.
3. After the overnight “soak” at  $-30^{\circ}\text{C}$ , the measurement of the carrier frequency of the transmitter was made within a three-minute interval after applying power to the transmitter.
4. Frequency measurements were made at  $10^{\circ}\text{C}$  intervals up to  $+60^{\circ}\text{C}$ , then back to room temperature. A minimum period of one hour was provided to allow stabilization of the equipment at each temperature level.

**3.1 TEST DATA**

***3.2 EFFECTIVE RADIATED POWER OUTPUT - §2.1046***

**800MHz CDMA MODE**

Frequency Tuned	EUT Conducted Power	Max. Field Strength of EUT (Vert. Pol.)	Dipole Gain	Dipole Forward Conducted Power	ERP of EUT Dipole Gain + Dipole Forward Conducted Power	
					(dBm)	Watts
(MHz)	(dBm)	(dBm)	(dBd)	(dBm)	(dBm)	Watts
824.70	25.0	- 18.39	- 1.44	26.19	24.75	0.299
835.89	25.0	- 18.17	- 1.34	26.21	24.87	0.307
848.31	25.0	- 18.87	- 1.24	25.97	24.73	0.297

Notes:

ERP Measurements by Substitution Method:

The EUT was placed on a turntable 3-meters from the receive antenna. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. A half-wave dipole was substituted in place of the EUT. The dipole was fed through a directional coupler and the power at the coupler port was monitored. A signal generator and power amplifier controlled the dipole, and the input level of the dipole was adjusted to the same field strength level as the EUT. The feed point for the dipole was then connected to a calibrated power meter and the power adjusted to read the same as the coupler port previously recorded, this is to account for any mismatch in impedance, which may occur at the dipole antenna. The conducted power at the antenna feed point was recorded. The forward power for the dipole was then determined and the ERP level was determined by adding the forward dipole power and the dipole gain in dB. For readings above 1GHz the above method is repeated using standard gain horn antennas.

**3.3 FIELD STRENGTH OF SPURIOUS RADIATION - 2.1053**

Operating Frequency (MHz): 824.70  
                                   Channel: 1013 (Low)  
 Measured Cond. Pwr. (dBm): 25.0  
                                   Measured ERP (dBm): 24.75  
                                   Modulation: CDMA (Internal)  
                                   Distance: 3 Meters  
                                   Limit:  $43 + 10 \log (W) = 38.13 \text{ dBc}$

Frequency (MHz)	Field Strength of Spurious Radiation (dBm)	Horn Forward Cond. Pwr. (dBm)	Standard Gain Horn Antenna Gain (dBi)	POL (H/V)	EIRP (dBm)	ERP (dBm)	dBc
1649.40	-80.60	-52.14	6.6	V	-45.54	-47.68	72.43
2474.10	-80.46	-54.17	7.8	V	-46.37	-48.51	73.26
3298.80	-82.22	-63.71	7.75	V	-55.96	-58.10	82.85
4123.50	-82.75	-66.23	7.6	V	-58.63	-60.77	85.52
4948.20	-82.30	-60.88	8.5	V	-52.38	-54.52	79.27
5772.90	-81.31	-65.74	8.8	V	-56.94	-59.08	83.83
6597.60	-81.04	-68.97	9.6	V	-59.37	-61.51	86.26
7422.30	-79.37	-71.20	9.0	V	-62.20	-64.34	89.09
8247.00	-80.37	-73.59	9.3	V	-64.29	-66.43	91.18

The spectrum analyzer was set to the following settings:

1. Resolution Bandwidth  $\leq 3 \text{ kHz}$
2. Video Bandwidth  $\geq 10 \text{ kHz}$
3. Sweep Speed  $\leq 2000 \text{ Hz/Second}$
4. Detector Mode = Positive Peak

Notes:

ERP Measurements by Substitution Method:

The EUT was placed on a turntable 3-meters from the receive antenna. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. A half-wave dipole was substituted in place of the EUT. The dipole was fed through a directional coupler and the power at the coupler port was monitored. A signal generator and power amplifier controlled the dipole, and the input level of the dipole was adjusted to the same field strength level as the EUT. The feed point for the dipole was then connected to a calibrated power meter and the power adjusted to read the same as the coupler port previously recorded, this is to account for any mismatch in impedance, which may occur at the dipole antenna. The conducted power at the antenna feed point was recorded. The forward power for the dipole was then determined and the ERP level was determined by adding the forward dipole power and the dipole gain in dB. For readings above 1GHz the above method is repeated using standard gain horn antennas.

Operating Frequency (MHz): 835.89  
 Channel: 363 (Mid)  
 Measured Cond. Pwr. (dBm): 25.0  
 Measured ERP (dBm): 24.87  
 Modulation: CDMA (Internal)  
 Distance: 3 Meters  
 Limit:  $43 + 10 \log (W) = 38.13 \text{ dBc}$

Frequency (MHz)	Field Strength of Spurious Radiation (dBm)	Horn Forward Cond. Pwr. (dBm)	Standard Gain Horn Antenna Gain (dBi)	POL (H/V)	EIRP (dBm)	ERP (dBm)	dBc
1671.78	-80.59	-50.48	6.6	V	-43.88	-46.02	70.89
2507.67	-80.73	-52.83	7.8	V	-45.03	-47.17	72.04
3343.56	-82.00	-55.97	7.75	V	-48.22	-50.36	75.23
4179.45	-82.81	-63.91	7.6	V	-56.31	-58.45	83.32
5015.34	-82.24	-61.88	8.5	V	-53.38	-55.52	80.39
5851.23	-81.43	-68.21	8.8	V	-59.41	-61.55	86.42
6687.12	-81.74	-75.67	9.6	V	-66.07	-68.21	93.08
7523.01	-79.58	-72.13	9.0	V	-63.13	-65.27	90.14
8358.90	-80.40	-76.50	9.3	V	-67.20	-69.34	94.21

The spectrum analyzer was set to the following settings:

1. Resolution Bandwidth  $\leq 3 \text{ kHz}$
2. Video Bandwidth  $\geq 10 \text{ kHz}$
3. Sweep Speed  $\leq 2000 \text{ Hz/Second}$
4. Detector Mode = Positive Peak

Notes:

ERP Measurements by Substitution Method:

The EUT was placed on a turntable 3-meters from the receive antenna. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. A half-wave dipole was substituted in place of the EUT. The dipole was fed through a directional coupler and the power at the coupler port was monitored. A signal generator and power amplifier controlled the dipole, and the input level of the dipole was adjusted to the same field strength level as the EUT. The feed point for the dipole was then connected to a calibrated power meter and the power adjusted to read the same as the coupler port previously recorded, this is to account for any mismatch in impedance, which may occur at the dipole antenna. The conducted power at the antenna feed point was recorded. The forward power for the dipole was then determined and the ERP level was determined by adding the forward dipole power and the dipole gain in dB. For readings above 1GHz the above method is repeated using standard gain horn antennas.



Operating Frequency (MHz): 848.31  
 Channel: 777 (High)  
 Measured Cond. Pwr. (dBm): 25.0  
 Measured ERP (dBm): 24.73  
 Modulation: CDMA (Internal)  
 Distance: 3 Meters  
 Limit:  $43 + 10 \log (W) = 38.13 \text{ dBc}$

Frequency (MHz)	Field Strength of Spurious Radiation (dBm)	Horn Forward Cond. Pwr. (dBm)	Standard Gain Horn Antenna Gain (dBi)	POL (H/V)	EIRP (dBm)	ERP (dBm)	dBc
1696.62	-80.98	-50.26	6.6	V	-43.66	-45.80	70.53
2544.93	-80.65	-53.61	7.8	V	-45.81	-47.95	72.68
3393.24	-81.72	-56.43	7.75	V	-48.68	-50.82	75.55
4241.55	-82.71	-61.20	7.6	V	-53.60	-55.74	80.47
5089.86	-81.95	-58.29	8.5	V	-49.79	-51.93	76.66
5938.17	-82.30	-63.85	8.8	V	-55.05	-57.19	81.92
6786.48	-78.71	-68.46	9.6	V	-58.86	-61.00	85.73
7634.79	-79.84	-71.97	9.0	V	-62.97	-65.11	89.84
8483.10	-83.22	-73.98	9.3	V	-64.68	-66.82	91.55

The spectrum analyzer was set to the following settings:

1. Resolution Bandwidth  $\leq 3 \text{ kHz}$
2. Video Bandwidth  $\geq 10 \text{ kHz}$
3. Sweep Speed  $\leq 2000 \text{ Hz/Second}$
4. Detector Mode = Positive Peak

Notes:

ERP Measurements by Substitution Method:

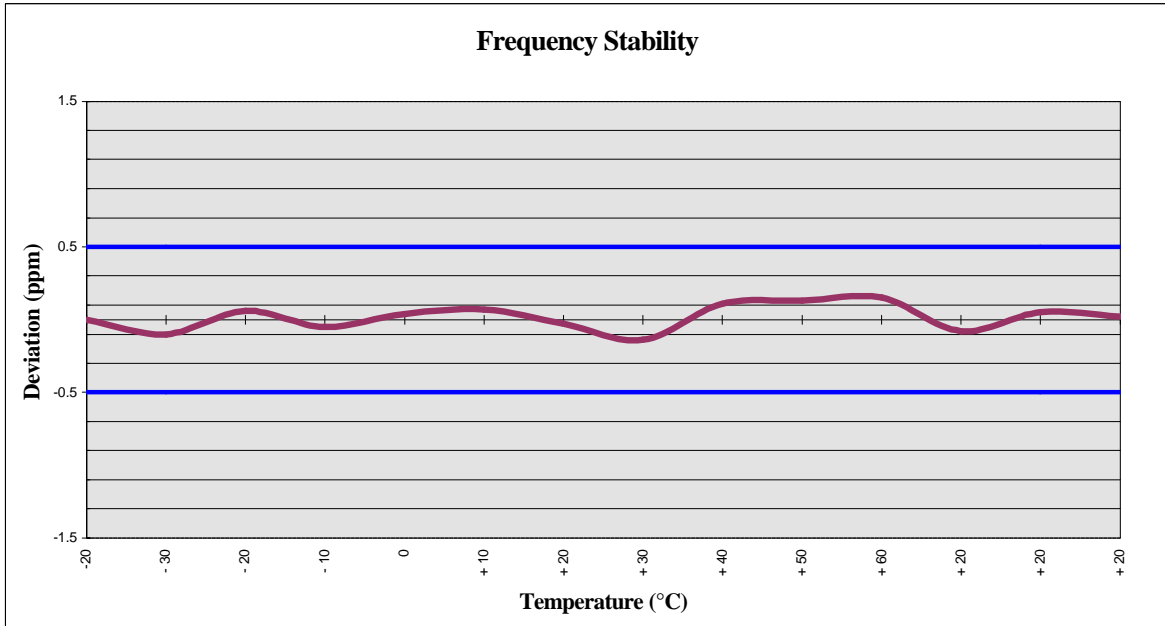
The EUT was placed on a turntable 3-meters from the receive antenna. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. The field strength was recorded from a calibrated spectrum analyzer for each channel being tested. A half-wave dipole was substituted in place of the EUT. The dipole was fed through a directional coupler and the power at the coupler port was monitored. A signal generator and power amplifier controlled the dipole, and the input level of the dipole was adjusted to the same field strength level as the EUT. The feed point for the dipole was then connected to a calibrated power meter and the power adjusted to read the same as the coupler port previously recorded, this is to account for any mismatch in impedance, which may occur at the dipole antenna. The conducted power at the antenna feed point was recorded. The forward power for the dipole was then determined and the ERP level was determined by adding the forward dipole power and the dipole gain in dB. For readings above 1GHz the above method is repeated using standard gain horn antennas.

**3.4 FREQUENCY STABILITY - § 2.1055**

Operating Frequency: 835,890,000 Hz  
 Channel: 363  
 Reference Voltage: 3.8 VDC  
 Deviation Limit: ± 0.00005 % or 0.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	835,890,000	0.000000
100 %		- 30	835,890,084	-0.000010
100 %		- 20	835,889,950	0.000006
100 %		- 10	835,890,042	-0.000005
100 %		0	835,889,967	0.000004
100 %		+ 10	835,889,941	0.000007
100 %		+ 20	835,890,025	-0.000003
100 %		+ 30	835,890,117	-0.000014
100 %		+ 40	835,889,908	0.000011
100 %		+ 50	835,889,891	0.000013
100 %		+ 60	835,889,875	0.000015
85 %		3.23	+ 20	835,890,067
115 %	4.37	+ 20	835,889,958	0.000005
BATT. ENDPOINT	3.00	+ 20	835,889,983	0.000002

**FREQUENCY STABILITY - § 2.1055**



#### **4.1 TEST EQUIPMENT**

<b><u>Type</u></b>	<b><u>Model</u></b>	<b><u>Calib. Date</u></b>	<b><u>Serial No.</u></b>
HP Signal Generator	8648D (9kHz-4.0GHz)	Nov 1999	3847A00611
Rohde & Schwarz Signal Generator	SMR40 (10MHz-40GHz)	Nov 2000	835537/022
Gigatronics Power Meter	8652A	Oct 1999	1835272
Gigatronics Power Sensor (2)	80701A (0.05-18GHz)	Jan 2001	1833535, 1833542
Amplifier Research Power Amp.	5S1G4 (5W, 800MHz-4.2GHz)	N/A	26235
Microwave System Amplifier	HP 83017A (0.5-26.5GHz)	N/A	3123A00587
Network Analyzer	HP 8753E (30kHz-3GHz)	Nov 1999	US38433013
Audio Analyzer	HP 8903B	March 1999	3729A18691
Modulation Analyzer	HP 8901A	March 1999	3749A07154
Frequency Counter	HP 53181A (3GHz)	May 1999	3736A05175
DC Power Supply	HP E3611A	N/A	KR83015294
CDMA Base Station Test Set	Agilent E8285A	N/A	US40332926
Multi-Device Controller	EMCO 2090	N/A	9912-1484
Mini Mast	EMCO 2075	N/A	0001-2277
Turntable	EMCO 2080-1.2/1.5	N/A	0002-1002
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	Oct. 2000	6267
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	Oct. 2000	6276
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	Sept 1998	9120A-239
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	Sept 1998	9120A-240
Roberts Dipoles	Compliance Design (2 sets) 3121C	June 2000	
Spectrum Analyzer	HP 8594E	March 2000	3543A02721
Spectrum Analyzer	HP E4408B	Nov 1999	US39240170
Shielded Screen Room	Lindgren R.F. 18W-2/2-0	N/A	16297
Environmental Chamber	ESPEC ECT-2 (Temperature/Humidity)	Feb 2000	0510154-B

## **5.1 CONCLUSION**

The data in this measurement report shows that the DOWTELECOM INC. Model: DTT-800 FCC ID: PUNDTT-800 Cellular CDMA Wireless Local Loop Terminal complies with all the requirements of Parts 2 and 22.901(d) of the FCC rules.

## TEST PLOTS

---



09:01:43 Oct 22, 2001

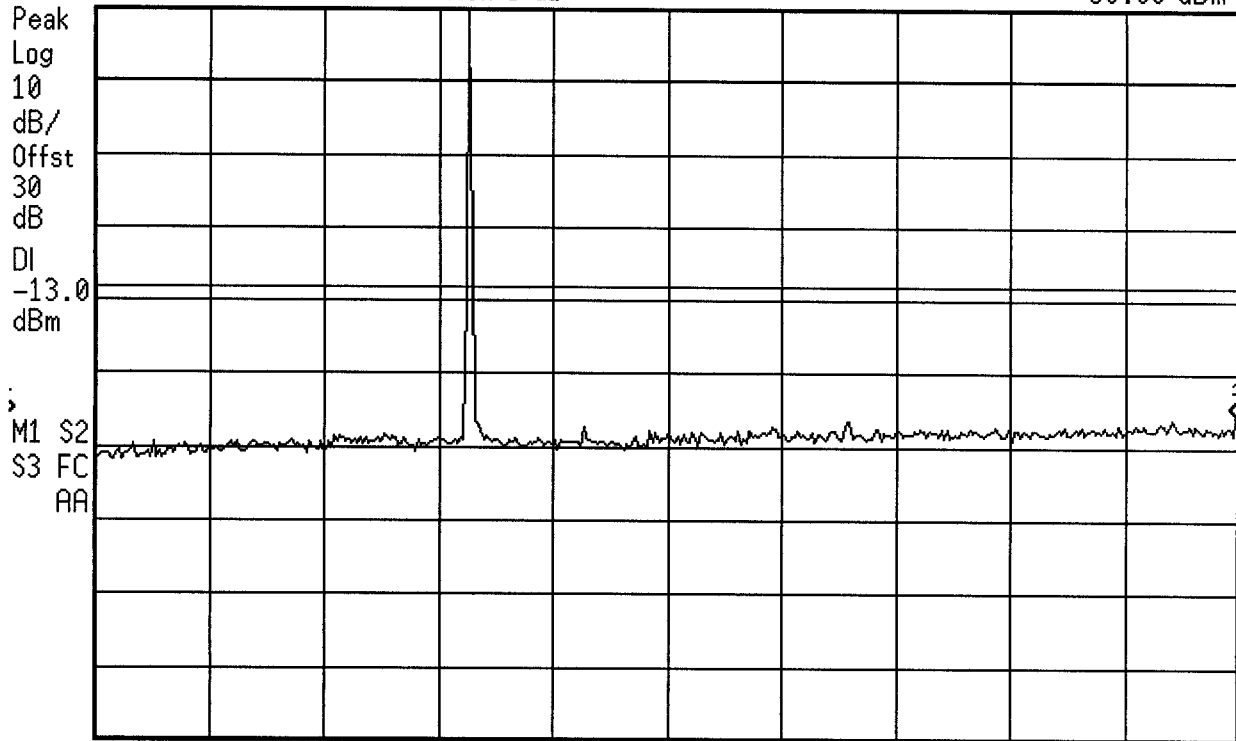
DOW TELECOM DTT-800 COND SPURS CH 1013

Mkr1 2.494 GHz

Ref 25 dBm

Atten 5 dB

-30.66 dBm



Start 10 MHz

#Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms



08:48:37 Oct 22, 2001

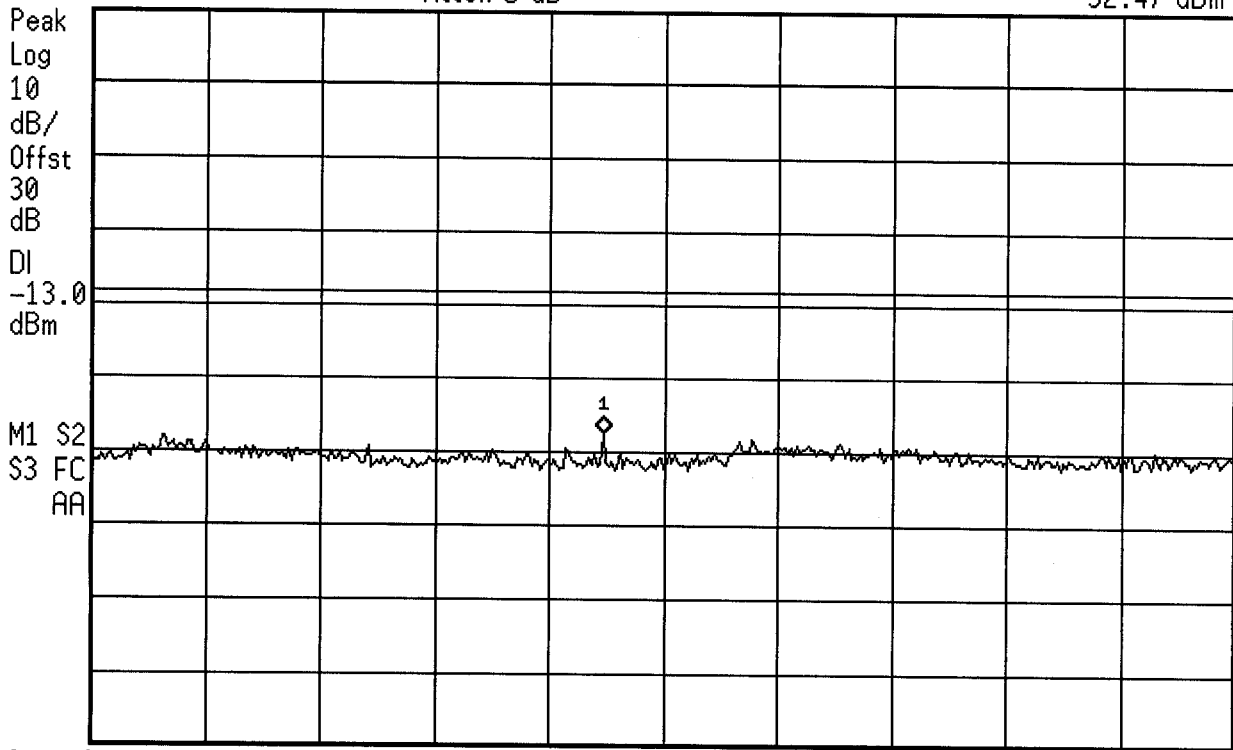
DOW TELECOM DTT-800 COND SPURS CH 1013

Ref 25 dBm

Atten 5 dB

Mkr1 5.856 GHz

-32.47 dBm



Start 2.5 GHz

\*Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms



hp 08:49:38 Oct 22, 2001

DOW TELECOM DTT-800 COND SPURS CH 1013

Mkr1 13.58 GHz

Ref 25 dBm

Atten 5 dB

-32.04 dBm

Peak

Log

10

dB/

Offst

30

dB

DI

-13.0

dBm

M1 S2

S3 FC

AA

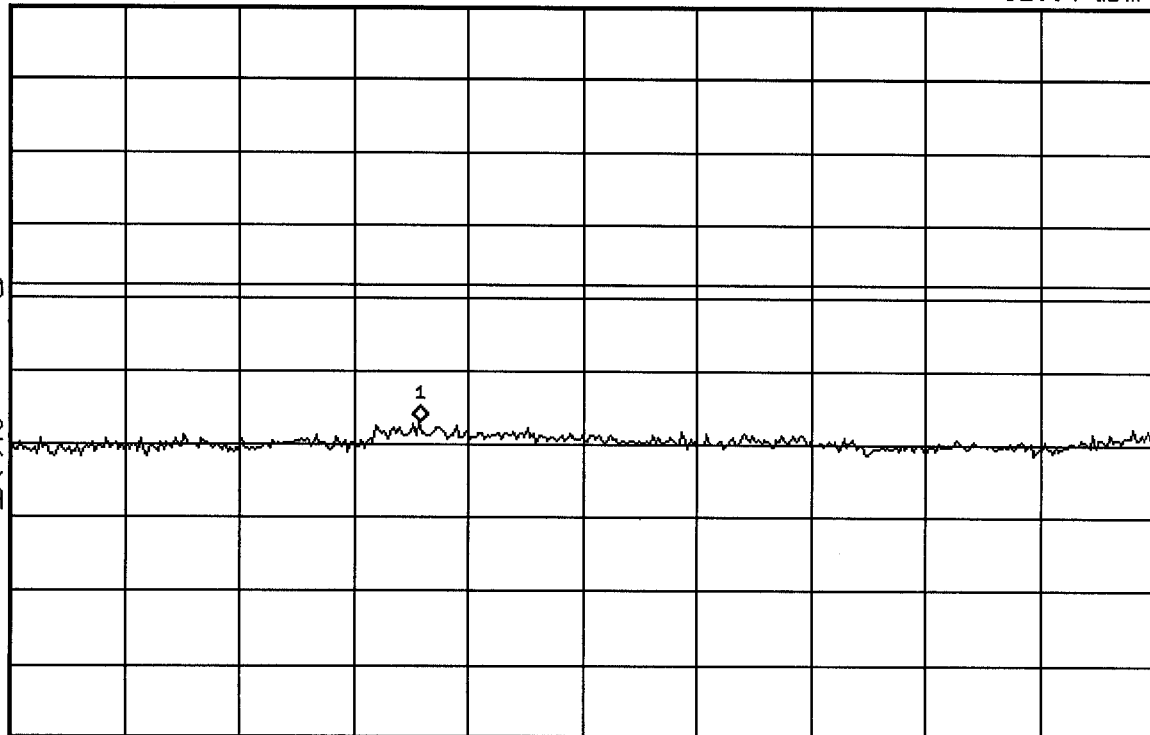
Start 10 GHz

\*Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz

Sweep 100 ms





08:57:41 Oct 22, 2001

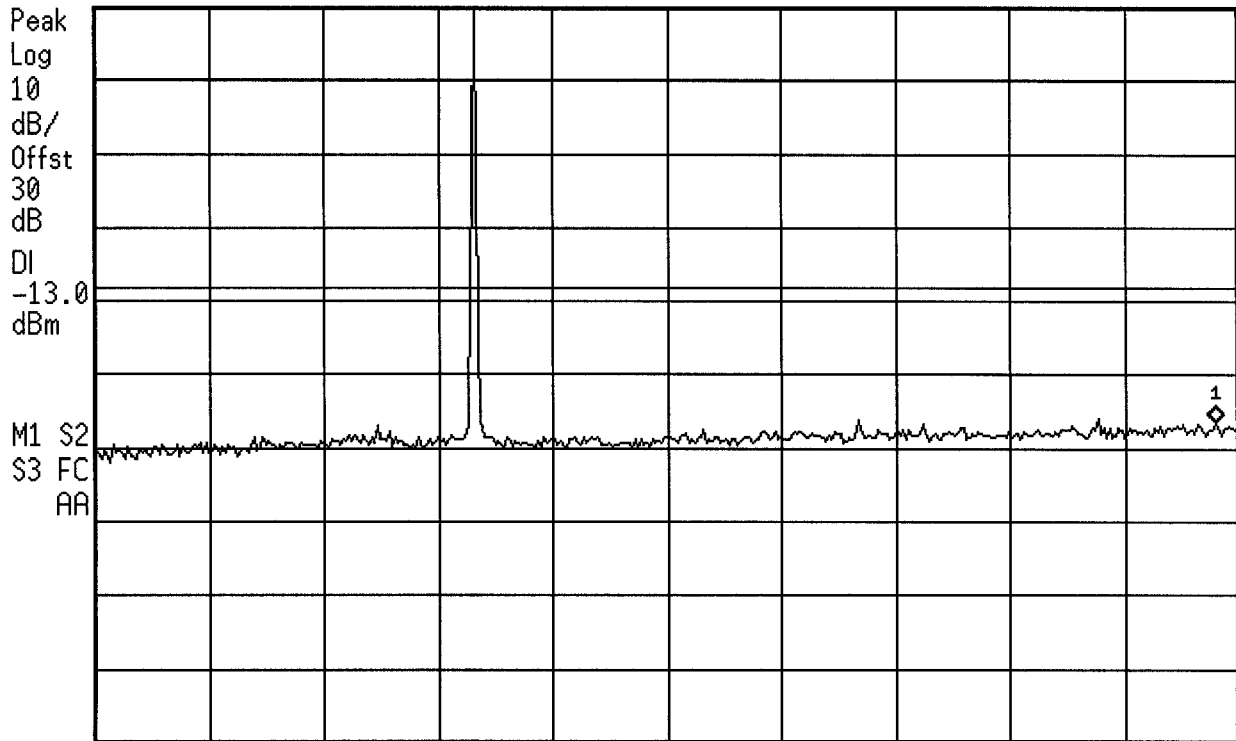
DOW TELECOM DTT-800 COND SPURS CH 363

Mkr1 2.450 GHz

Ref 25 dBm

Atten 5 dB

-31.31 dBm



Start 10 MHz

\*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms



08:58:14 Oct 22, 2001

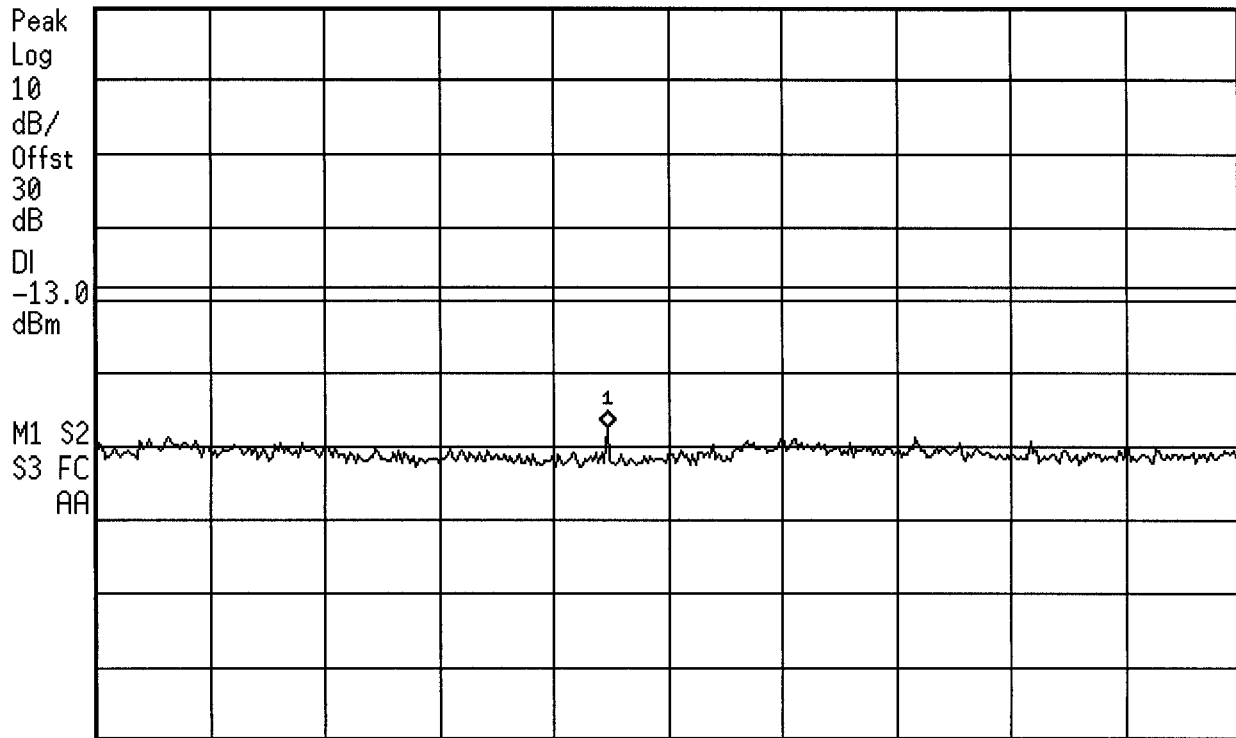
DOW TELECOM DTT-800 COND SPURS CH 363

Mkr1 5.856 GHz

Ref 25 dBm

Atten 5 dB

-32.44 dBm



Start 2.5 GHz

\*Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms

hp 08:58:59 Oct 22, 2001

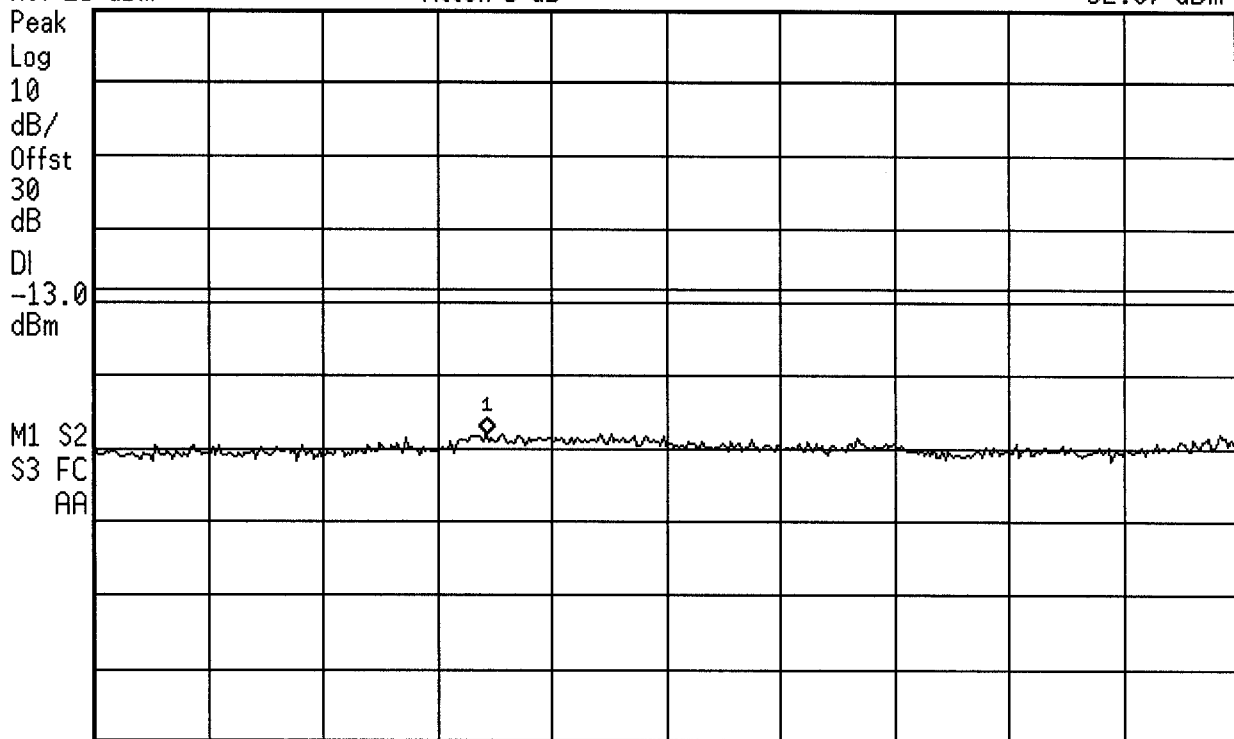
DOW TELECOM DTT-800 COND SPURS CH 363

Mkr1 13.43 GHz

Ref 25 dBm

Atten 5 dB

-32.87 dBm



Start 10 GHz

#Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz

Sweep 100 ms

hp 09:05:26 Oct 22, 2001

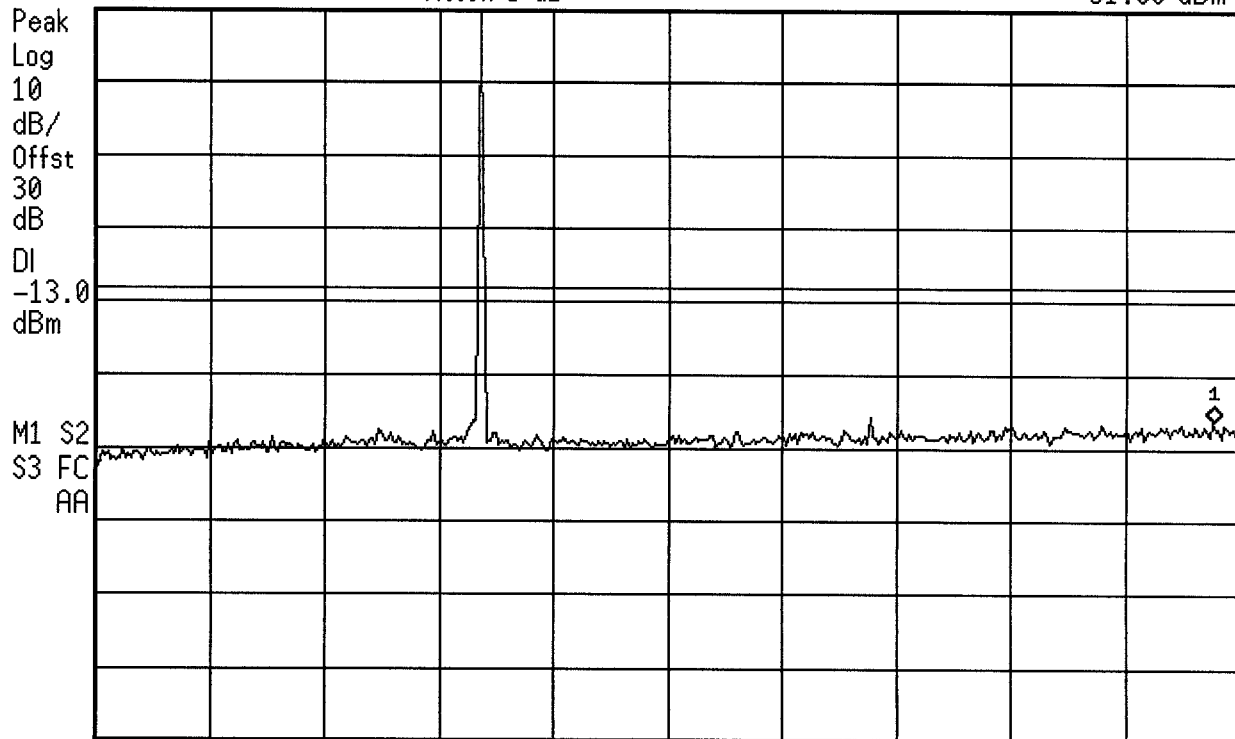
DOW TELECOM DTT-800 COND SPURS CH 777

Ref 25 dBm

Atten 5 dB

Mkr1 2.444 GHz

-31.09 dBm



Start 10 MHz

\*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms



hp 09:06:52 Oct 22, 2001

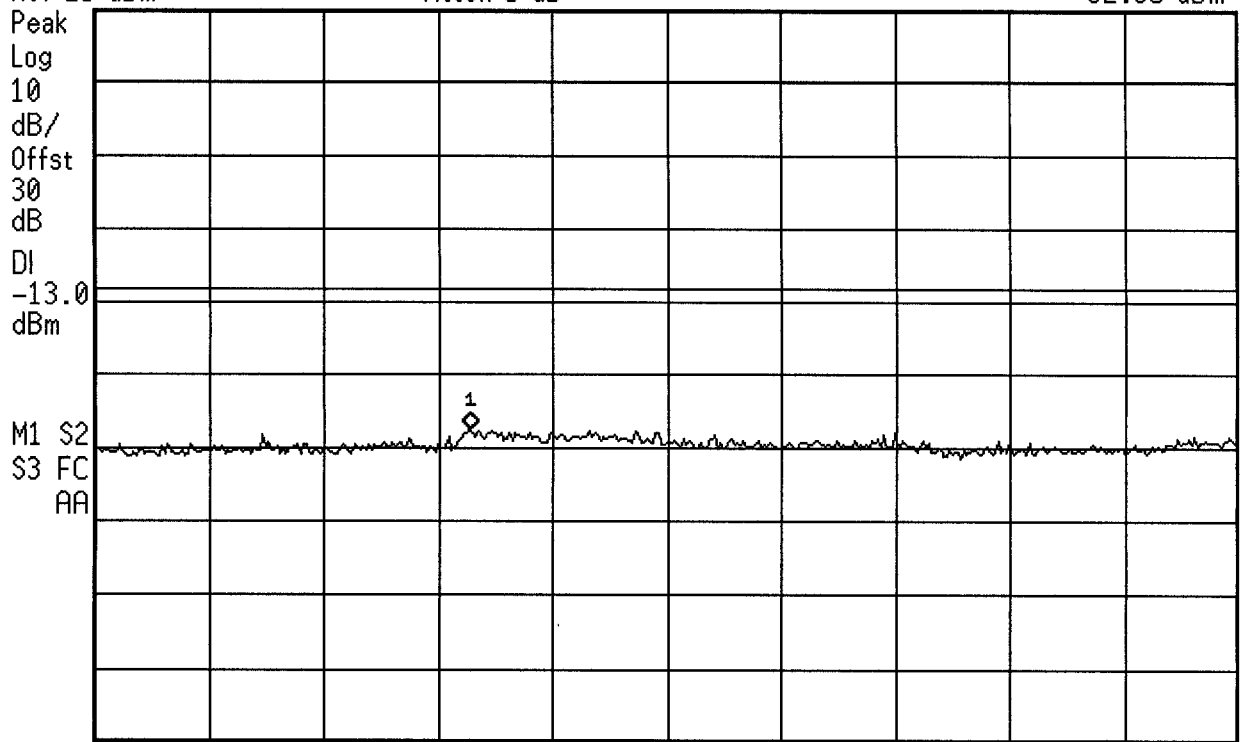
DOW TELECOM DTT-800 COND SPURS CH 777

Mkr1 13.28 GHz

Ref 25 dBm

Atten 5 dB

-32.35 dBm



Start 10 GHz

\*Res BW 1 MHz

VBW 1 MHz

Stop 20 GHz

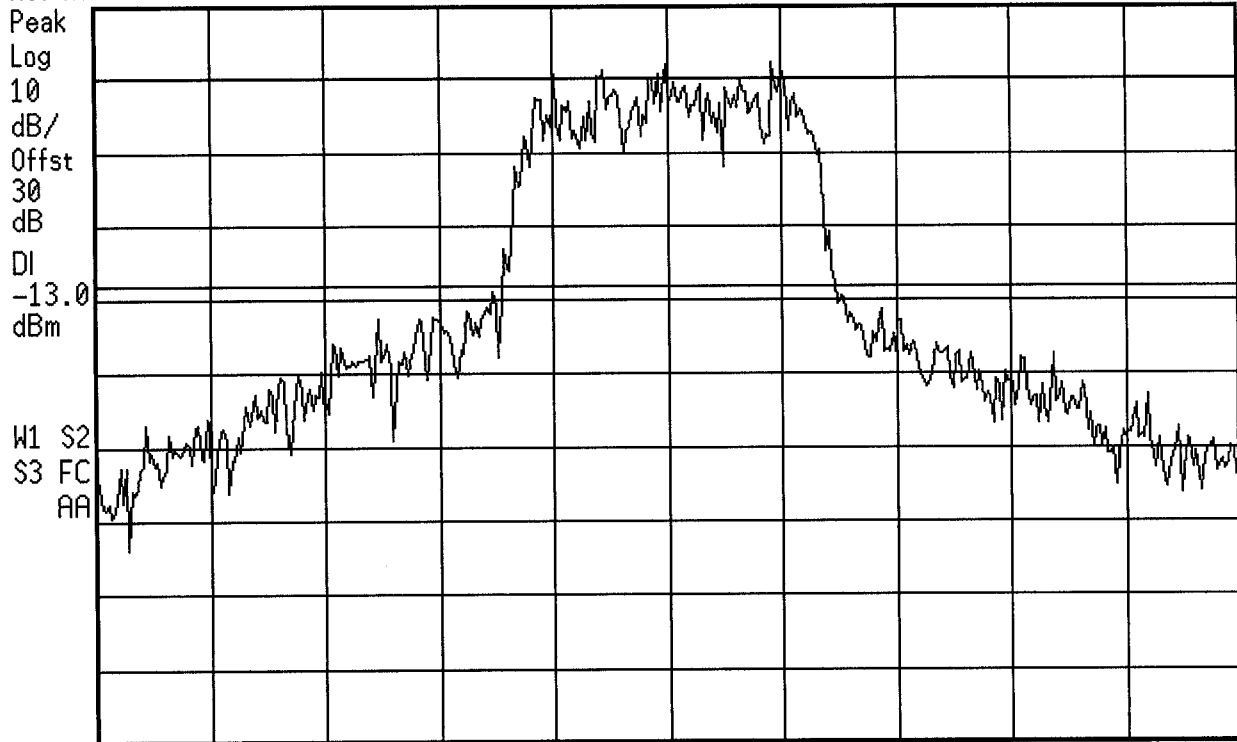
Sweep 100 ms

hp 09:18:17 Oct 22, 2001

DOW TELECOM DTT-800 CDMA CH 1013

Ref 25 dBm

Atten 5 dB



Center 824.7 MHz

\*Res BW 30 kHz

VBW 30 kHz

Span 5 MHz

Sweep 13.89 ms



hp 09:35:08 Oct 22, 2001

DOW TELECOM DTT-800 CDMA CH 363

Ref 25 dBm

Atten 5 dB

Peak

Log

10

dB/

Offst

30

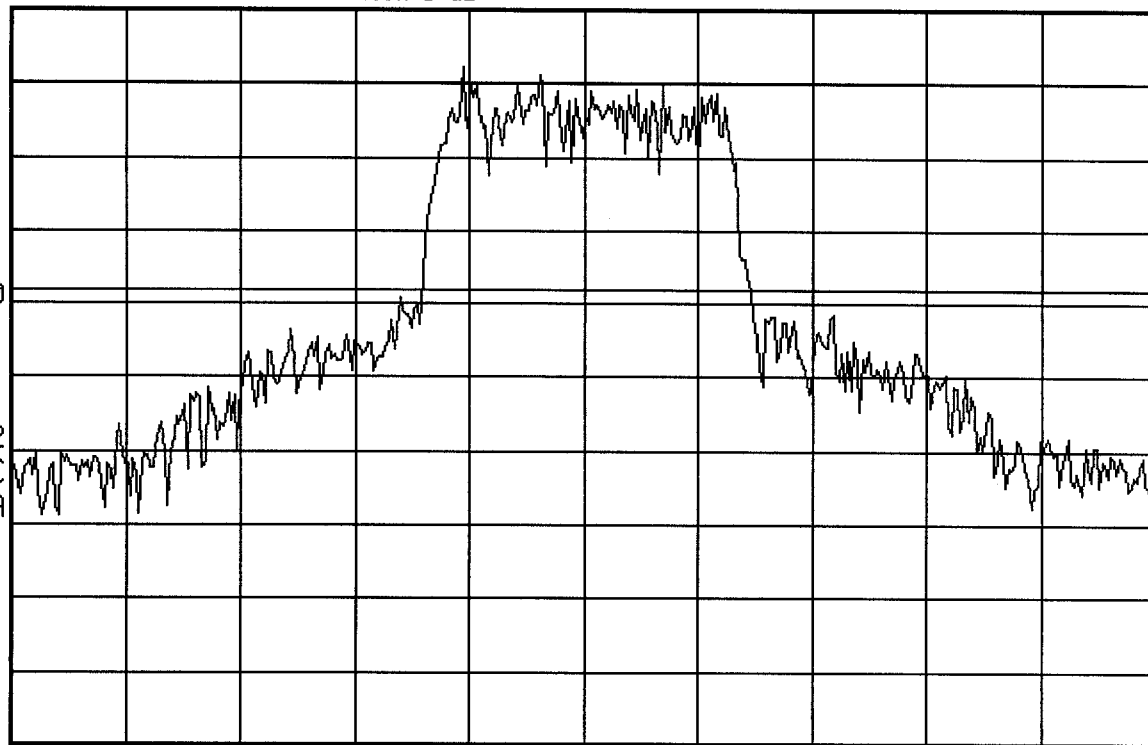
dB

DI

-13.0

dBm

W1 S2  
S3 FC  
AA



Center 835.9 MHz

#Res BW 30 kHz

#VBW 30 kHz

Span 5 MHz

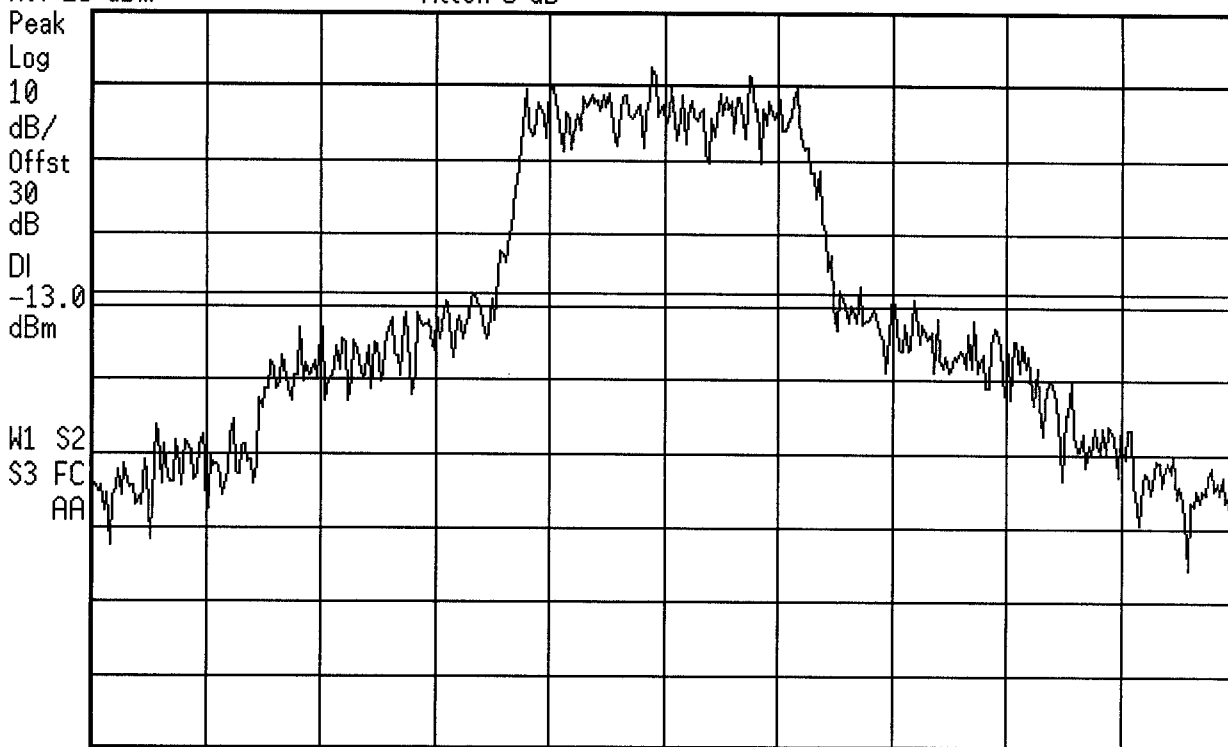
Sweep 13.89 ms

hp 09:37:25 Oct 22, 2001

DOW TELECOM DTT-800 CDMA CH 777

Ref 25 dBm

Atten 5 dB



Center 848.3 MHz

#Res BW 30 kHz

#VBW 30 kHz

Span 5 MHz

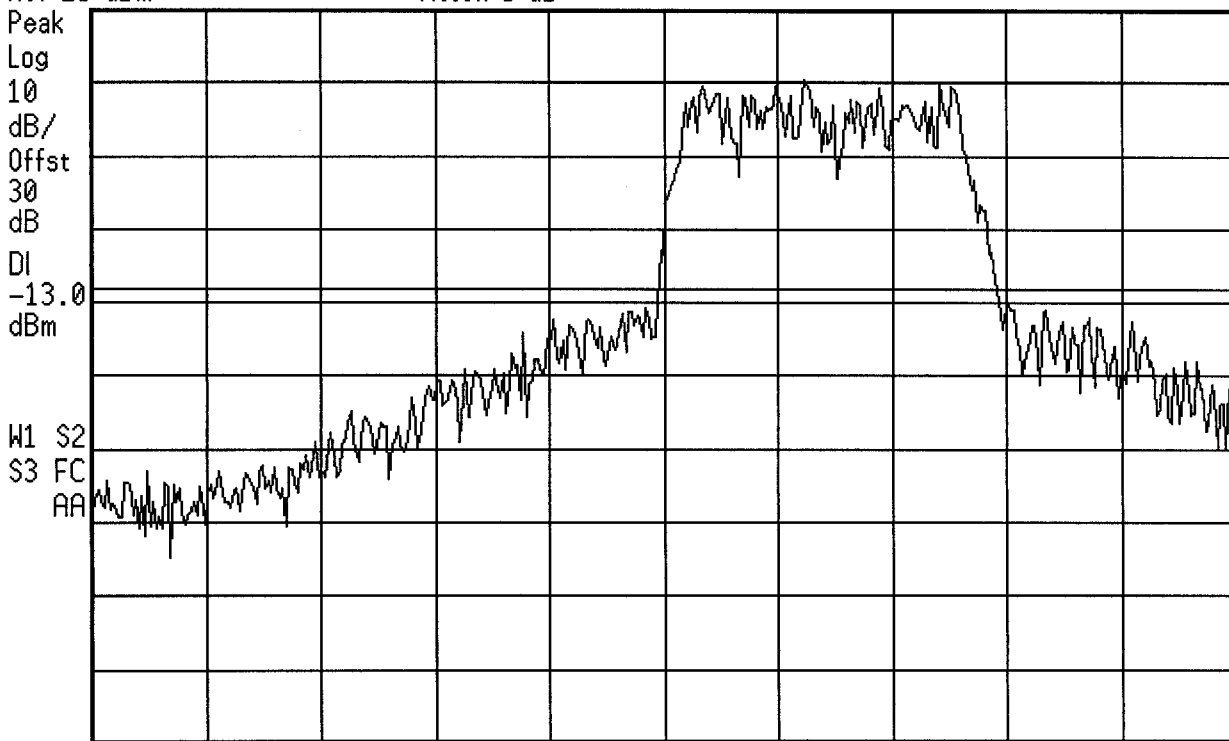
Sweep 13.89 ms

hp 09:43:02 Oct 22, 2001

DOW TELECOM DTT-800 BAND EDGE CDMA LOW CH

Ref 25 dBm

Atten 5 dB



Center 824 MHz

\*Res BW 30 kHz

\*VBW 30 kHz

Span 5 MHz

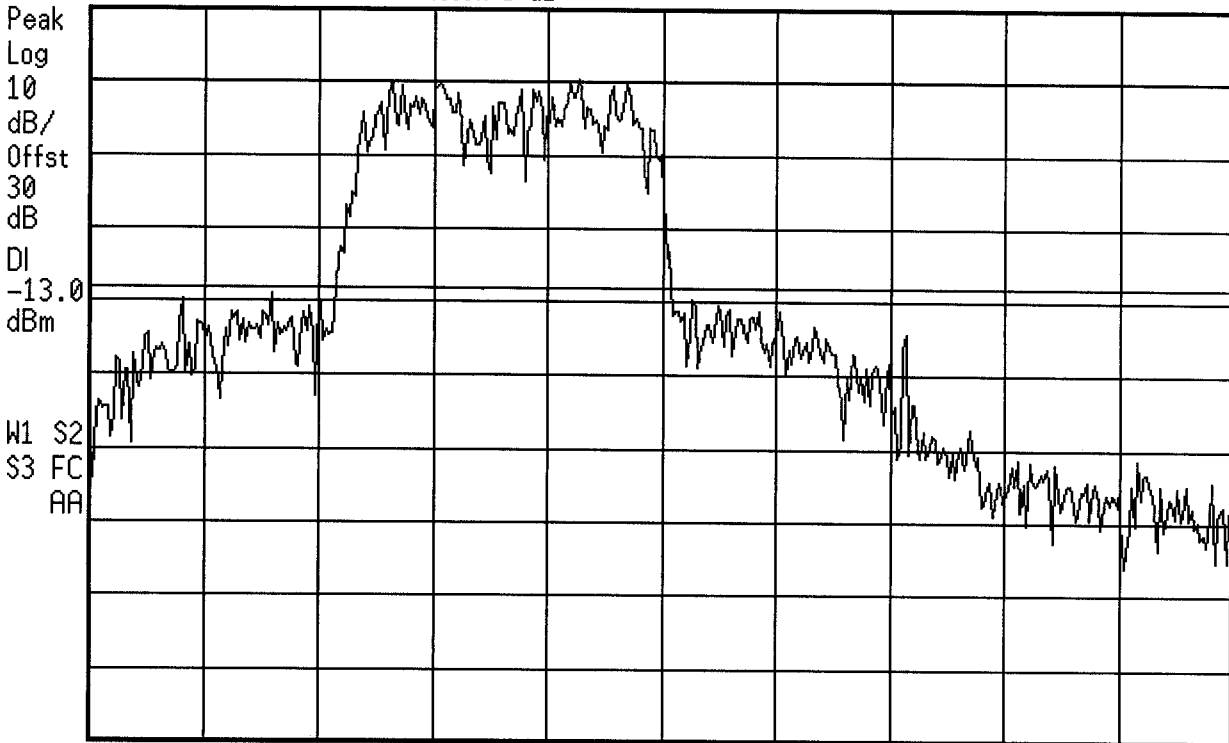
Sweep 13.89 ms

hp 09:40:28 Oct 22, 2001

DOW TELECOM DTT-800 BAND EDGE CDMA HIGH CH

Ref 25 dBm

Atten 5 dB



Center 849 MHz

\*Res BW 30 kHz

\*VBW 30 kHz

Span 5 MHz

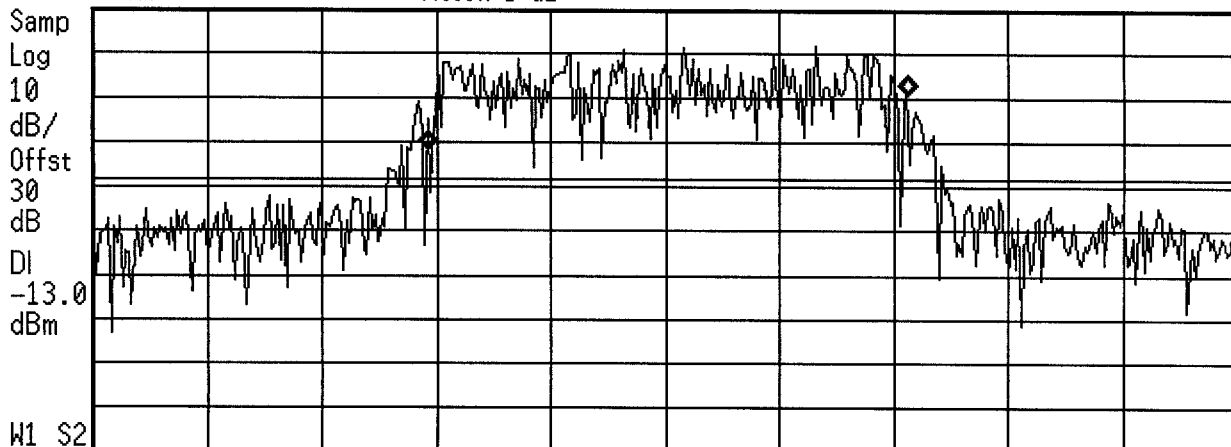
Sweep 13.89 ms

hp 09:46:01 Oct 22, 2001

DOW TELECOM DTT-800 BAND EDGE CDMA LOW CH

Ref 25 dBm

Atten 5 dB



Center 835.9 MHz

Span 3 MHz

#Res BW 30 kHz

#VBW 300 kHz

Sweep 9.167 ms

Occupied Bandwidth Results (measuring..)

Occupied Bandwidth

Occ BW % Pwr 99.00 %

1.262 MHz

Transmit Freq Error 6.815 kHz