Exhibit 3

SECTION 2.983 (d)
Technical description of the equipment sufficiently complete to develop all the factors concerning compliance with the technical standards of the applicable rules part. The description shall include the following items:

SECTION 2.983 (d) (1)
Type or types of emission.

RESPONSE:
The **AS5CMP-25** is capable of amplifying transmissions involving the following types of emissions:
1M23G9W

SECTION 2.983 (d) (2)
Frequency Range.

RESPONSE: **869.00 - 894.00 MHz**

SECTION 2.983 (d) (3)
Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

RESPONSE:
The **AS5CMP-25** amplifier is capable of operating from 0.3 to 40.0 Watts CW at the amplifier output. The output power that is delivered to the J4 output connector of the cabinet in which the **AS5CMP-25** is mounted is reduced from this maximum value by filter insertion loss, RF transmission losses and margin for long term reliability. The power is also under continuous software control. When installed in a cabinet with applicable filters the long term average rated power at the J4 output connector is 24 Watts +2 /-4 dB. The short term peak power, due to channel activity fluctuations, is 35.0 Watts.

SECTION 2.983 (d) (4)
Maximum power rating as defined in the applicable part of the rules.

RESPONSE: The maximum average power output of the **AS5CMP-25** at the Cabinet Output J4 connector is 35.0 Watts.

Exhibit 3 *continued*

SECTION 2.983 (d) (5)
The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.

RESPONSE: The CAM nominally uses the following voltages and maximum currents :

Overall CAM	+26 VDC @ 25.0 A max.
Final Output Transistors:	Four devices in parallel, each device draws 2.25 amps at 24 V at rated output power

Exhibit 9

SECTION 2.983 (d) (11)

A description of any circuits or devices employed for suppression of spurious radiation, for limiting modulation and for limiting power.

RESPONSE: The modulation control and power limiting functions are controlled by **AS5CMP-21** (FCC equipment authorization March 30, 1998) which supplies the signals to be amplified. External to the CAM there are cavity type Transmit Filters which limit spurious and harmonic content. The performance characteristics of these filters are included in Figures 9a, 9b and 9c

Complete circuit diagrams.

RESPONSE:
The complete circuit diagrams for the Amplifier are included with the documents for which confidential status has been requested and are included in Exhibit 5c.

COMPLETE CIRCUIT DIAGRAMS

Please see Exhibit 5c

(LUCENT TECHNOLOGIES CONFIDENTIAL PROPRIETARY INFORMATION)
(MPD TECHNOLOGIES CONFIDENTIAL PROPRIETARY INFORMATION)

Figure 9a
AS5CMP-25
CDMA Amplifier Module
Lucent Technologies Inc.

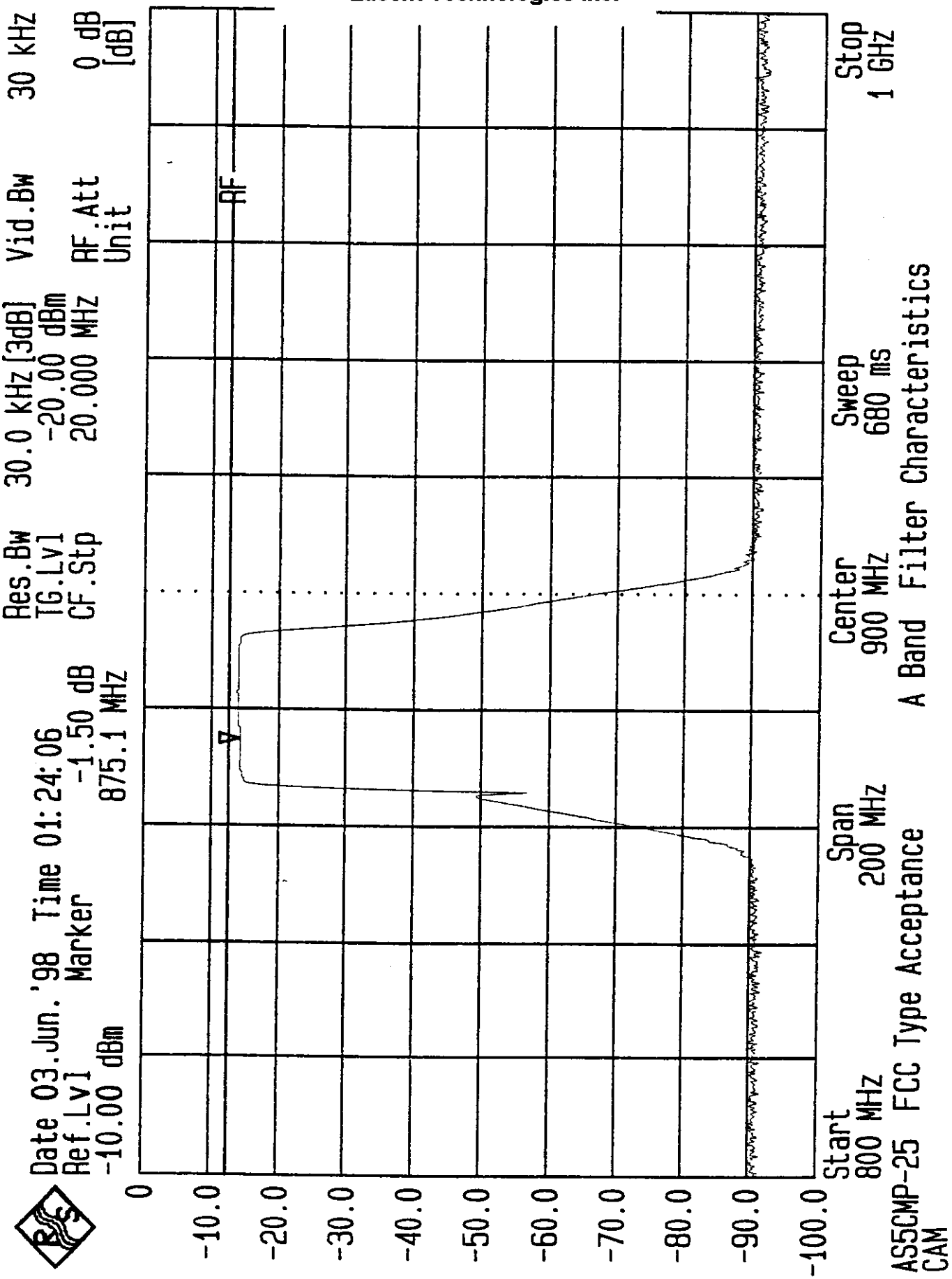


Figure 9b
AS5CMP-25
CDMA Amplifier Module
Lucent Technologies Inc.

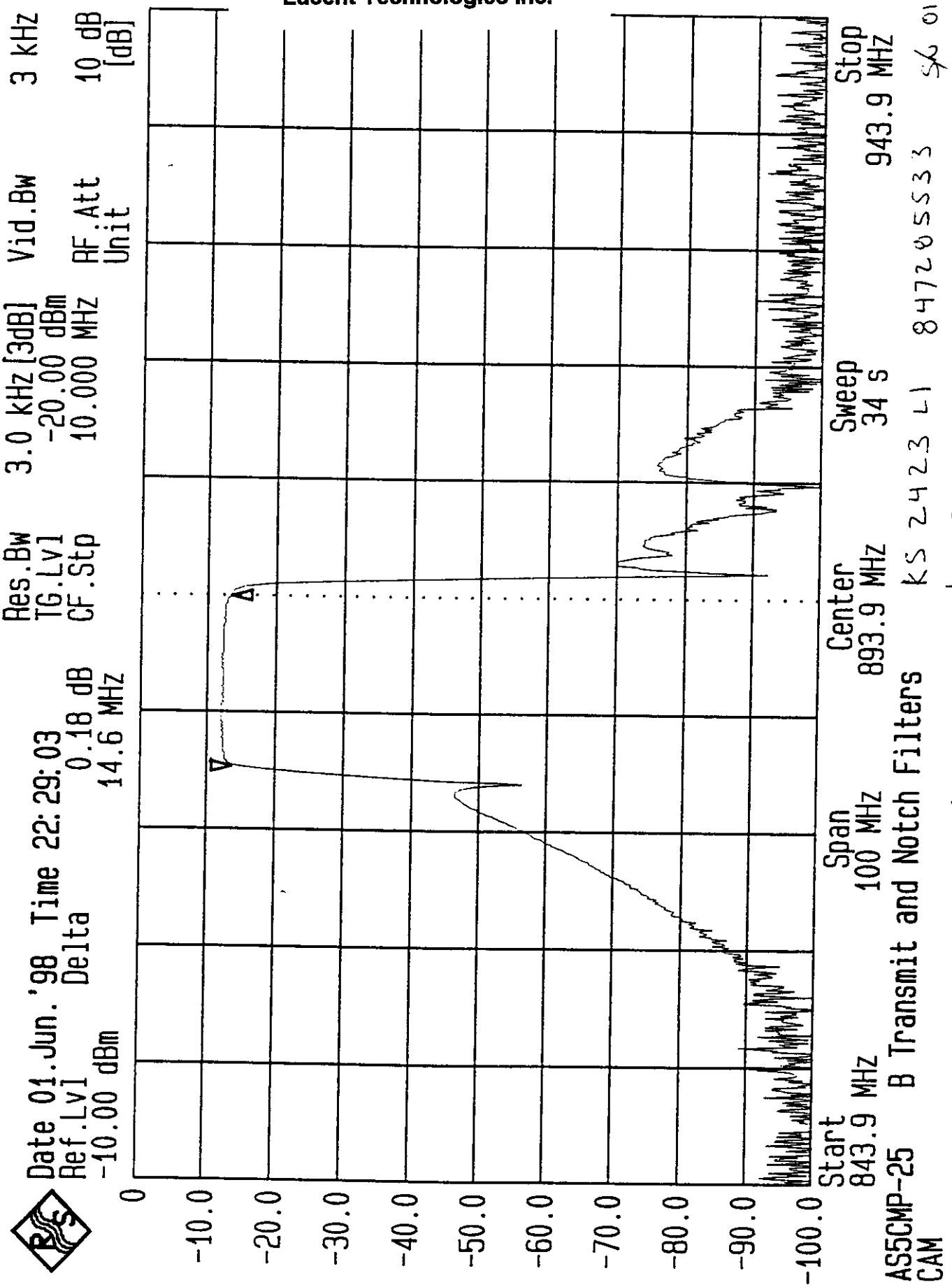


Figure 9c
AS5CMP-25
CDMA Amplifier Module
Lucent Technologies Inc.

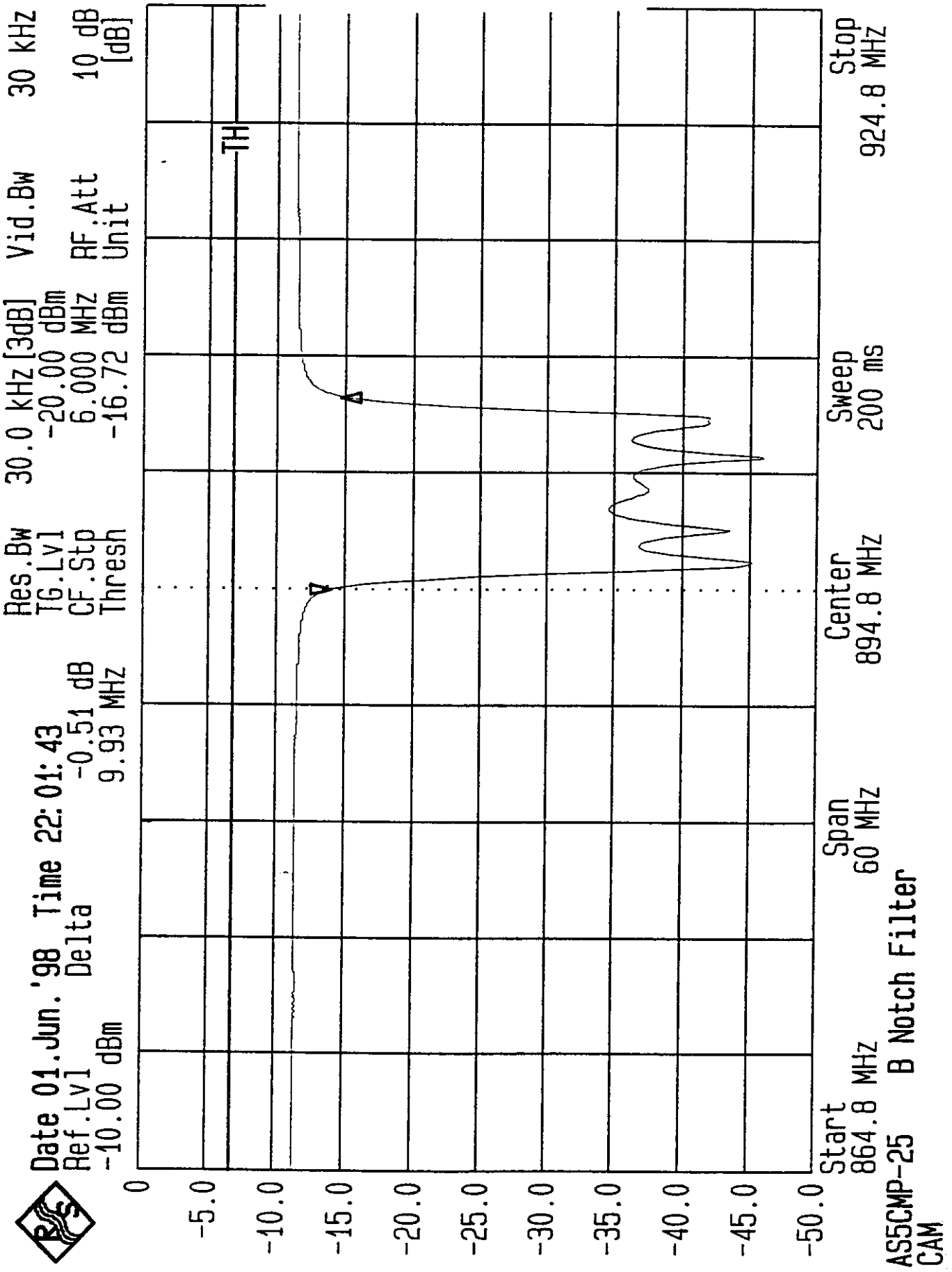


Exhibit 10

SECTION 2.983 (d) (12)

For equipment employing digital modulation techniques, a detailed description of the modulation system to be use, including response characteristics of any filters provided, and a description of the modulating wavetrain, shall be submitted for the maximum rated conditions under which the equipment will be operated.

RESPONSE:
These functions are controlled by the **AS5CMP-21** (FCC equipment authorization March 30, 1998) which supplies the signals to be amplified.

Exhibit 11

SECTION 2.983 (e)

The data required by Section 2.985 through 2.997, inclusive, measured in accordance with the procedures set out in Section 2.999.

RESPONSE:

The following pages include the data required for the Type Acceptance authorization of the FCC ID: **AS5CMP-25**, measured in accordance with the procedures set out in Section 2.999 of the Rules.

Each required measurement and its corresponding exhibit number are:

Exhibit 12:	Section 2.985	RF Power Output
Exhibit 13:	Section 2.987	Modulation Characteristics
Exhibit 14:	Section 2.989	Occupied Bandwidth
Exhibit 15:	Section 2.991	Spurious Emissions at Antenna Terminals
Exhibit 16:	Section 2.993	Field Strength of Spurious Radiation

Exhibit 12

SECTION 2.985

MEASUREMENT OF RADIO FREQUENCY POWER OUTPUT

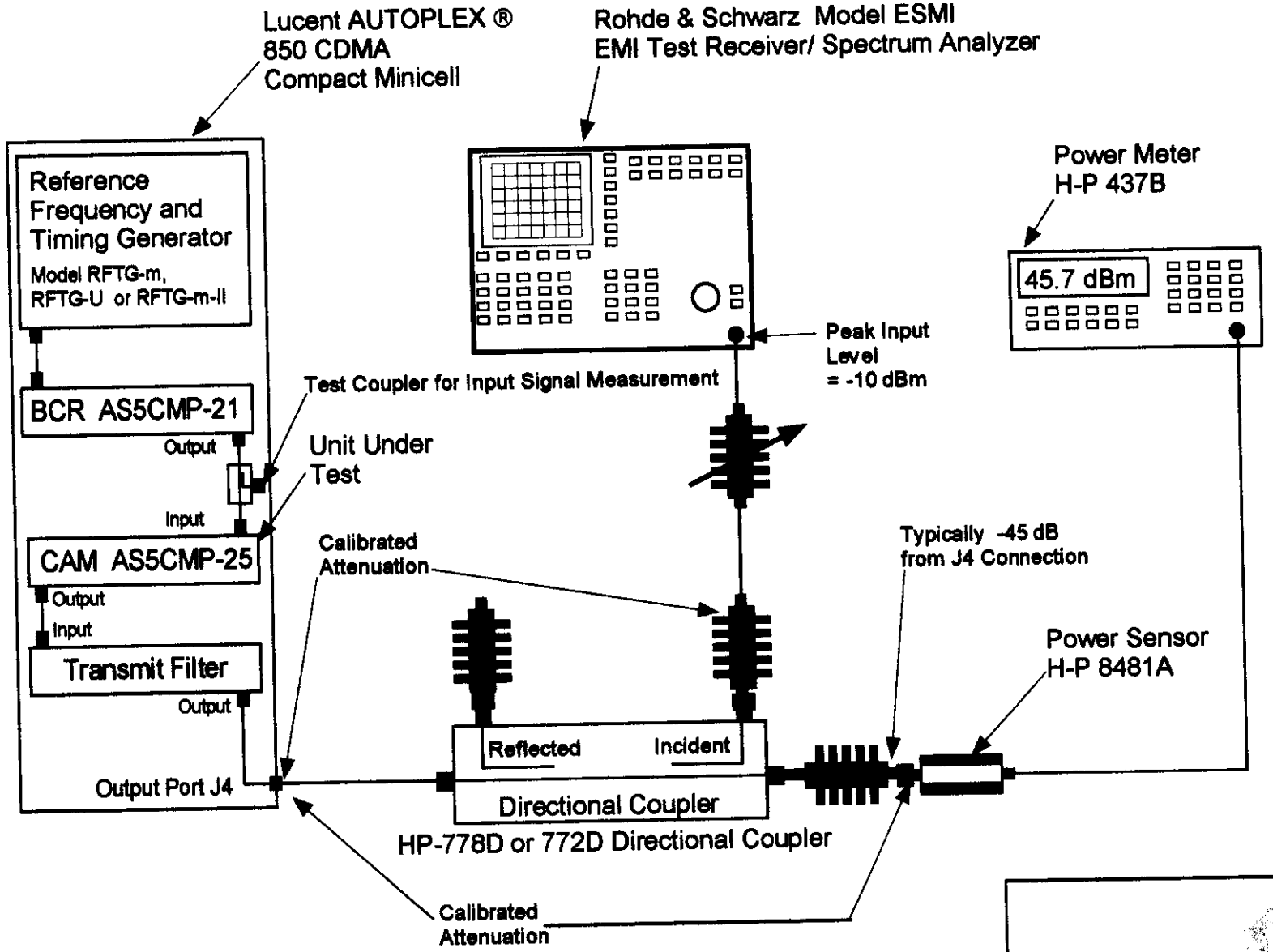
The test arrangements used to measure the radio frequency power output of the FCC ID: **AS5CMP-25** CDMA Amplifier Module is on the following page. Measurements were made respectively at each frequency where occupied Bandwidth measurements were performed. The use of the CAM is for a single CDMA carrier. This requires that the J4 power level be calibrated for the specific channel of use. The test configuration, Figure 12a, allowed the measurement of output power for each channel investigated for Occupied Bandwidth. These included the upper lower band edges and at the center channel for each Band.

The CAM system has a maximum power output at the antenna terminals of 35.0 Watts (38.5 dBm) +2 / -4 dB, it also has a minimum power output at the antenna terminals of 0.3 Watts (29.1 dBm +2 / -4 dB, across the Cellular band (869.00 - 894.00 MHz). The signal applied to the CAM is defined in Table 12.1. The power was reset to a minimum of 35.0 Watts at each measurement frequency to verify the spectral performance at that power level at each specific frequency of interest. The attenuation range was also verified. The specific Frequencies and channels and set power level was documented on each "Occupied Bandwidth" sheet.

Type	Number of Channels	Fraction of Power (Linear)	Fraction of Power (dB)	Comments
Pilot	1	0.2000	-7.0	Walsh 0
Sync	1	0.0471	-13.3	Walsh 32, always 1/8 rate
Paging	1	0.1882	-7.3	Walsh 1, full rate only
Traffic	6	0.09412 each	-10.3 each	Variable Walsh Assignments, full rate only

TABLE 12.1 Base Station Test Model, Nominal

Figure 12A. Test Configuration For RF Power Output



All components are calibrated over the frequency range of interest

Lucent Technologies
Bell Labs Innovations

850 Compact Figure 12A
WSM 7/20/98

Exhibit 12

TEST SETUP FOR MEASUREMENT OF RADIO FREQUENCY POWER OUTPUT

EQUIPMENT :

RFTG:	**Reference Frequency and Timing Generator, 15 MHz**
BCR:	**Baseband Combiner and Radio**
CAM:	**CDMA Amplifier Module Unit (FCC ID: AS5CMP-25)**
Transmit Filter:	**Cellular Band Transmit Filter appropriate for the investigated Band**
Directional Coupler:	**HP 778D Dual Directional Coupler**
Power Meter:	**HP 437B with HP 8481A Power Head**
Plotter:	**HP Model 7470A Plotter**
Spectrum Analyzer:	**Rohde & Schwarz ESMI EMI Test Receiver**

Exhibit 12 FCC ID: AS5CMP-25

RESULTS:

The CAM was configured in the test setup shown in Figure 12A. When measured at the J4 output connection the CAM delivered a minimum of 35.0 Watts +2 dB -0 at all cellular channels/ frequencies of operation. The Occupied Bandwidth measurements data sheets also document the power level measured at each frequency of measurement. The CAM is a single CDMA channel amplifier and its maximum power level is verified at each cell site during installation of the CBR FCC ID: **AS5CMP-21** (FCC equipment authorization March 30, 1998)

Exhibit 13

SECTION 2.987

MEASUREMENT OF MODULATION CHARACTERISTICS

The modulation characteristics and accuracy of the CAM are a function of the input signal which is provided by the BCR **AS5CMP-21** (FCC equipment authorization March 30, 1998).

Exhibit 14

SECTION 2.989
MEASUREMENT OF OCCUPIED BANDWIDTH

The occupied bandwidth of the FCC ID: **AS5CMP-25** CAM was measured using a Rohde & Schwarz ESMI EMI Test Receiver and an HP Model 7470A Plotter. The RF power level was measured and adjusted via the test setup in Figure 14A. The RF output from the transmitter was reduced (to an amplitude usable by the spectrum analyzer) by using a calibrated attenuator. This attenuation was offset on the display and the signal adjusted to the -16.1 dBc level corresponding to the corrected RF power level for a 30 kHz resolution bandwidth. The power calibration was verified for a 1.25 MHz resolution bandwidth which corresponds to the top of the display.

The frequencies and channels used are tabulated on the bottom of each plot. Input and output signals are plotted at each frequency/ channel. Plots are provided for Left Edge, Center and Right Edge of each cellular band. These frequencies were chosen to show the occupied bandwidth in the channels in each of the cellular bands in which this radio can be operated, in compliance with Section 22.902 (c) of the Commission code. There are no SAT or Wide band data signals associated with CDMA. The signal used to show the occupied bandwidth is defined in table 14.1. This is the signal recommended in IS-95 section 10. The power output level was adjusted to provide the documented power levels at the bottom of each chart..

Type	Number of Channels	Fraction of Power (Linear)	Fraction of Power (dB)	Comments
Pilot	1	0.2000	-7.0	Walsh 0
Sync	1	0.0471	-13.3	Walsh 32, always 1/8 rate
Paging	1	0.1882	-7.3	Walsh 1, full rate only
Traffic	6	0.09412 each	-10.3 each	Variable Walsh Assignments, full rate only

TABLE 14.1 Base Station Test Model, Nominal

Exhibit 14

The minimum standard presented in PN-3383 Section 4.5.1.3.1 was followed.

"Suppression Inside the Licensee's Frequency Block(s)"

For all frequencies within the base station transmit band of 869.00 to 894.00 MHz that are within the specific block(s) allocated to the operator's system, the total conducted spurious emissions in any 30kHz band greater than 750 kHz for the CDMA channel center frequency shall not exceed a level of -45 dBc....

A Resolution Bandwidth of 30 kHz is based on our experience with Section 22.917 of The Code and lacking other guidance.

The spectrum analysis output plot shows the peak of the CDMA channel signal 16.1 dB below the zero line of the spectrum analyzer for the following reason: For the CDMA system there is no carrier without modulation. This relationship was used to provide the correct level for an unmodulated carrier vs. The modulated signal.

10log (Transmit Bandwidth / Resolution Bandwidth)

$$10\log (1.23 \text{ MHz} / 30 \text{ kHz}) = 16.1 \text{ dB}$$

Figure 14A. Test Configuration For Occupied Bandwidth

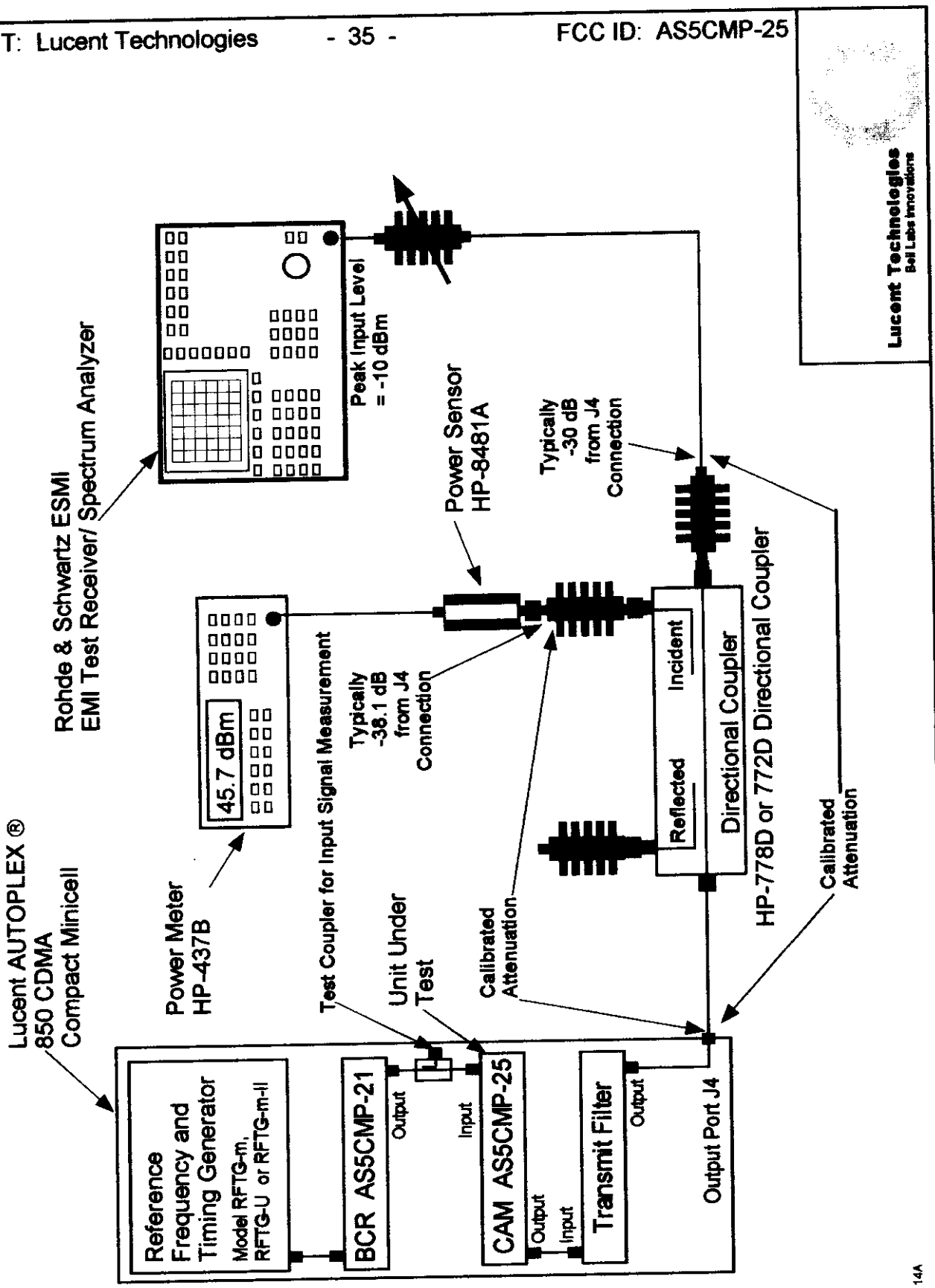


Exhibit 14

TEST SETUP FOR MEASUREMENT OF OCCUPIED BANDWIDTH

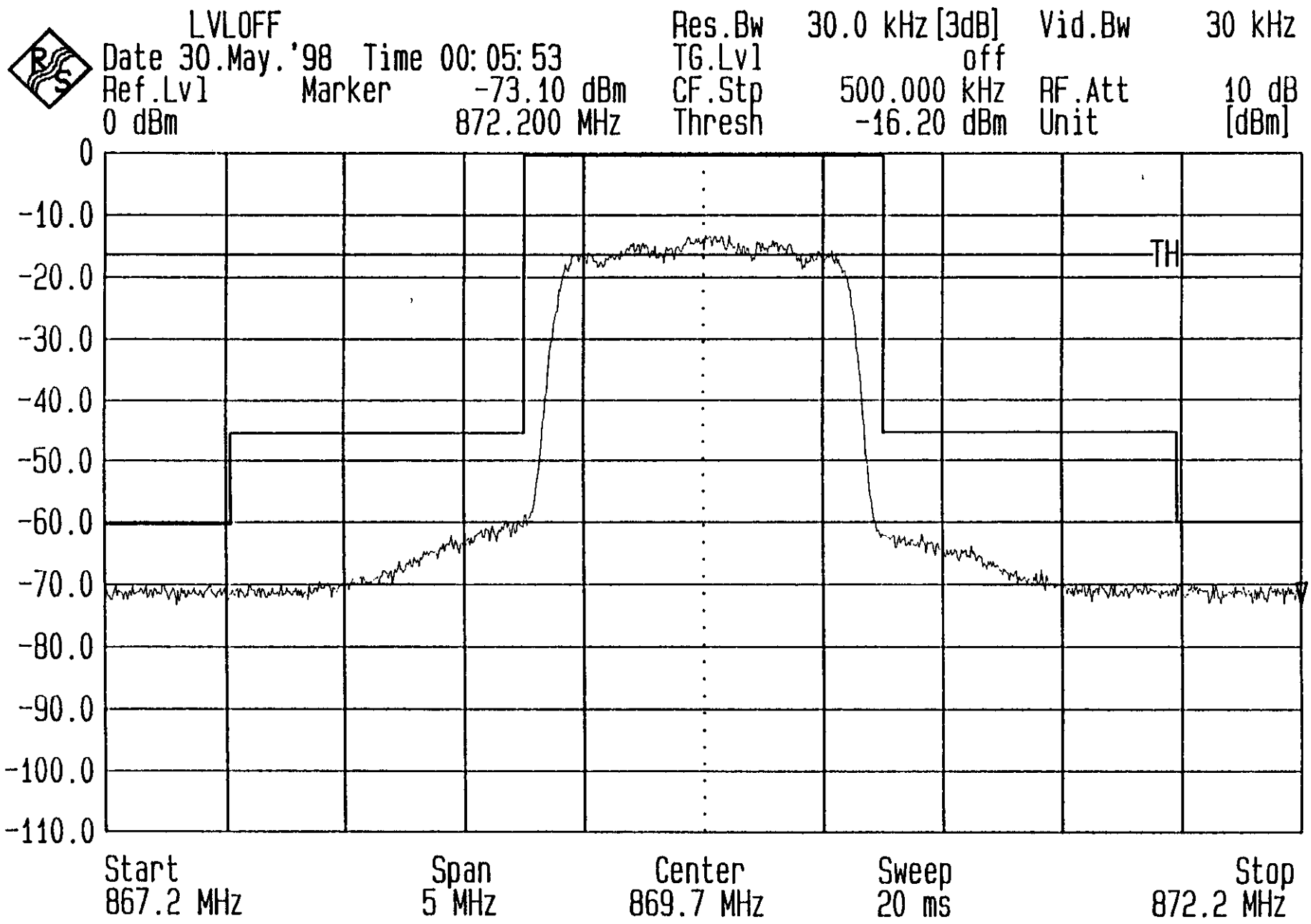
EQUIPMENT

RFTG:	Reference Frequency and Timing Generator, 15 MHz
BCR:	Baseband Combiner and Radio
CAM:	CDMA Amplifier Module Unit (FCC ID: **AS5CMP-25**)
Transmit Filter:	Cellular Band Transmit Filter appropriate for the investigated Band
Directional Coupler:	HP 778D Dual Directional Coupler
Power Meter:	HP 437B with HP 8481A Power Head
Plotter:	HP Model 7470A Plotter
Spectrum Analyzer:	Rohde & Schwarz ESMI EMI Test Receiver

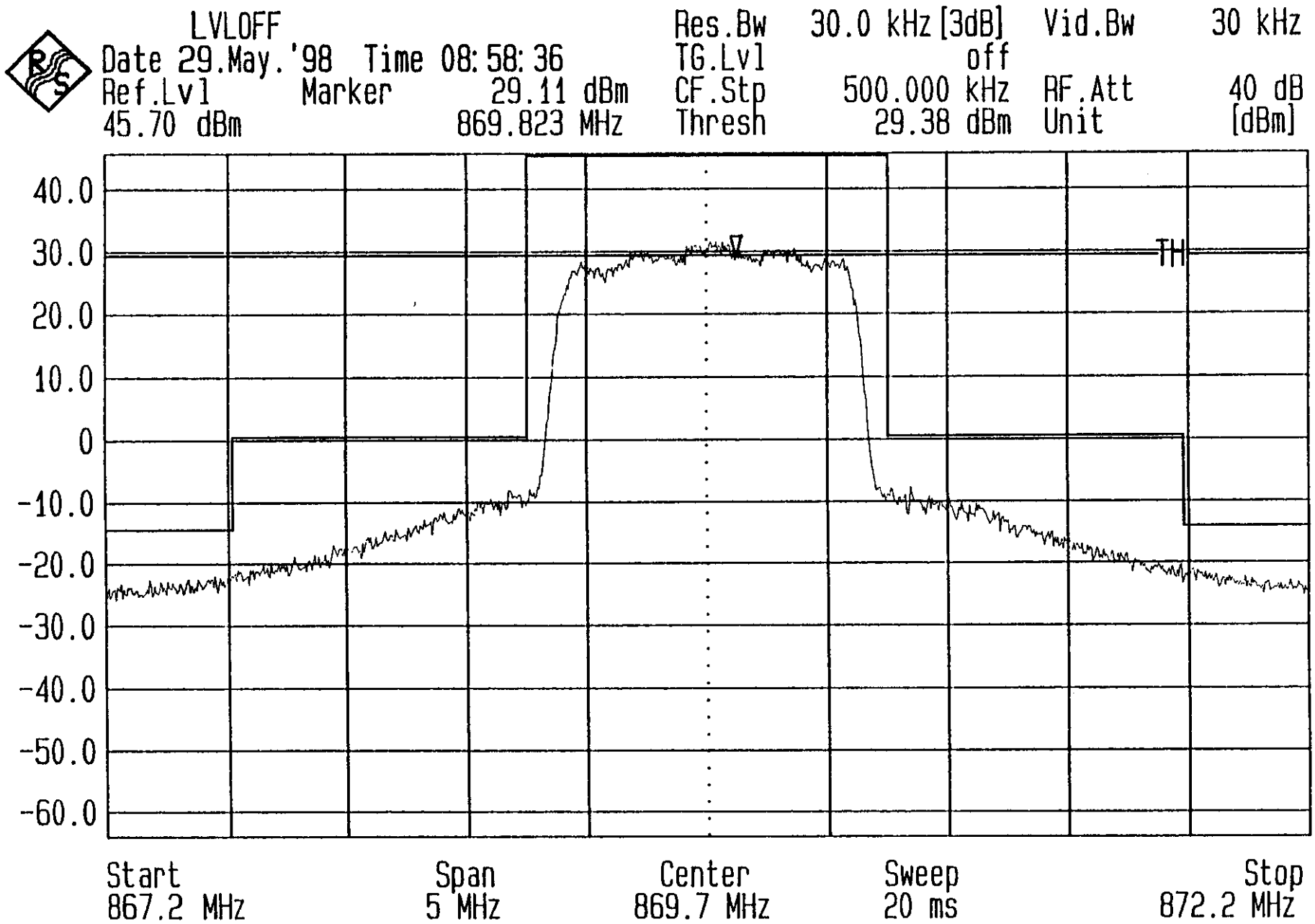
RESULTS: The following exhibits illustrate the spectrums investigated and document compliance.

Very truly yours,

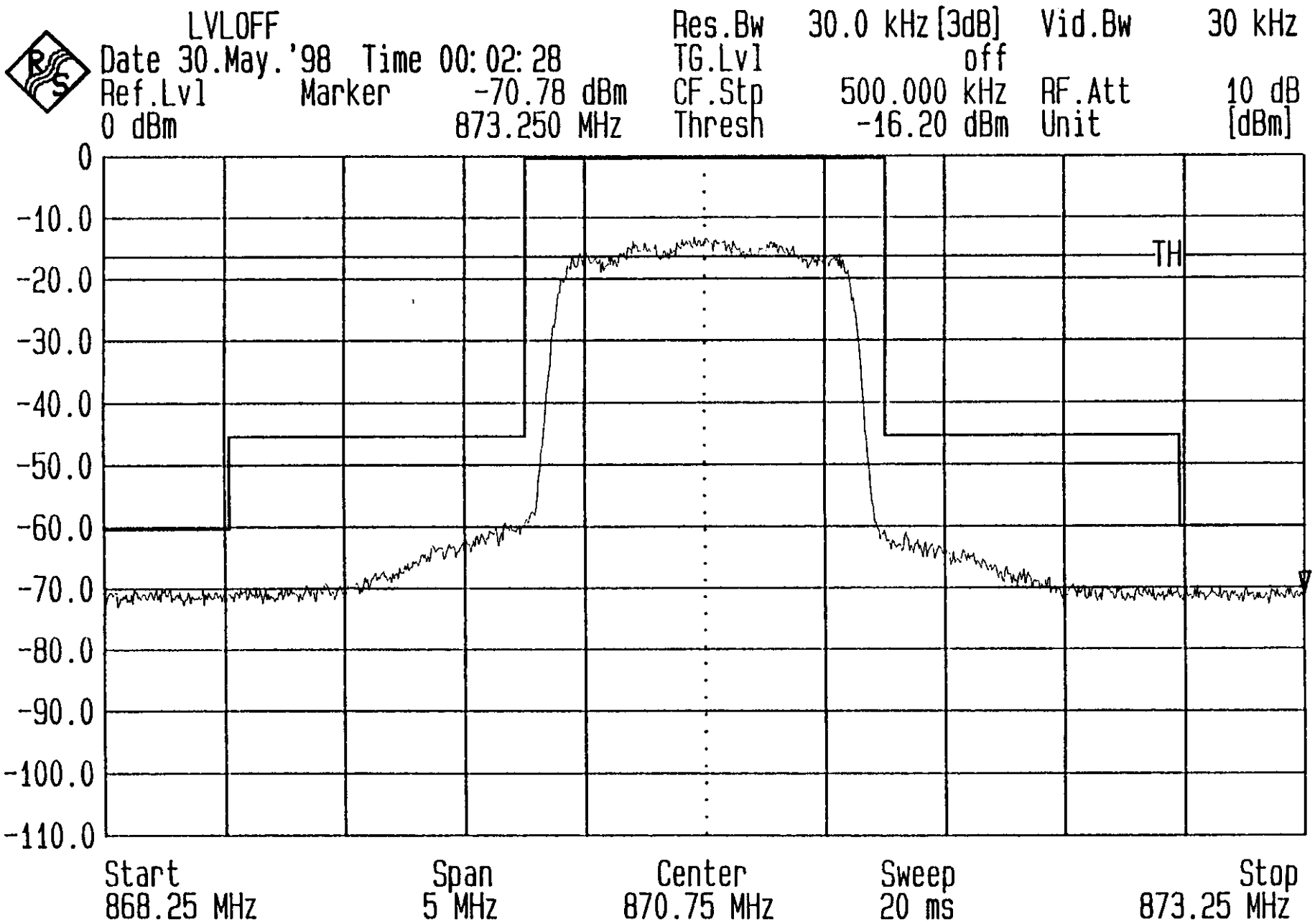
W.Steve Majkowski
FCC Test Engineer



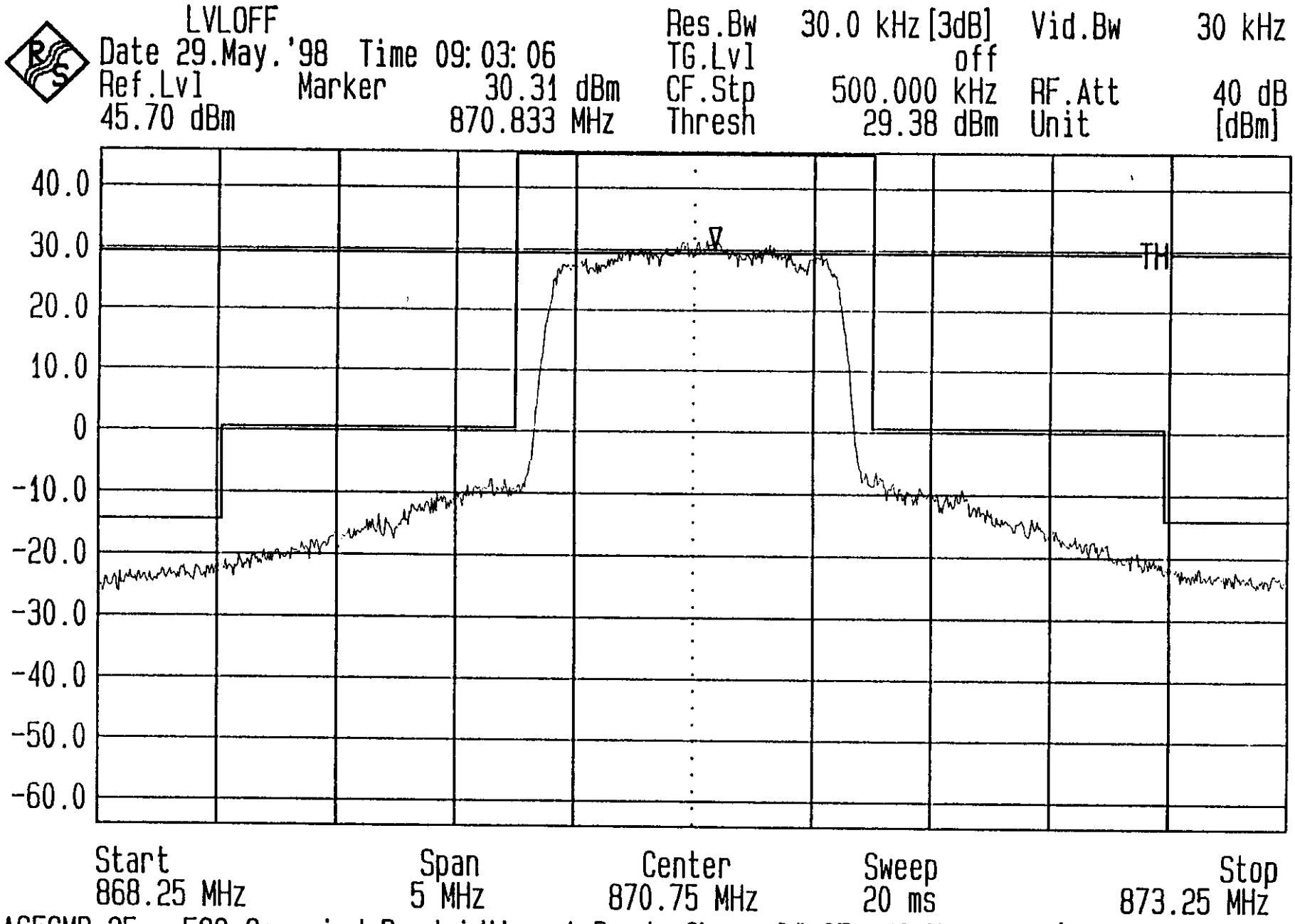
AS5CMP-25 FCC Occupied Bandwidth; A" Band, Channel# 1013, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



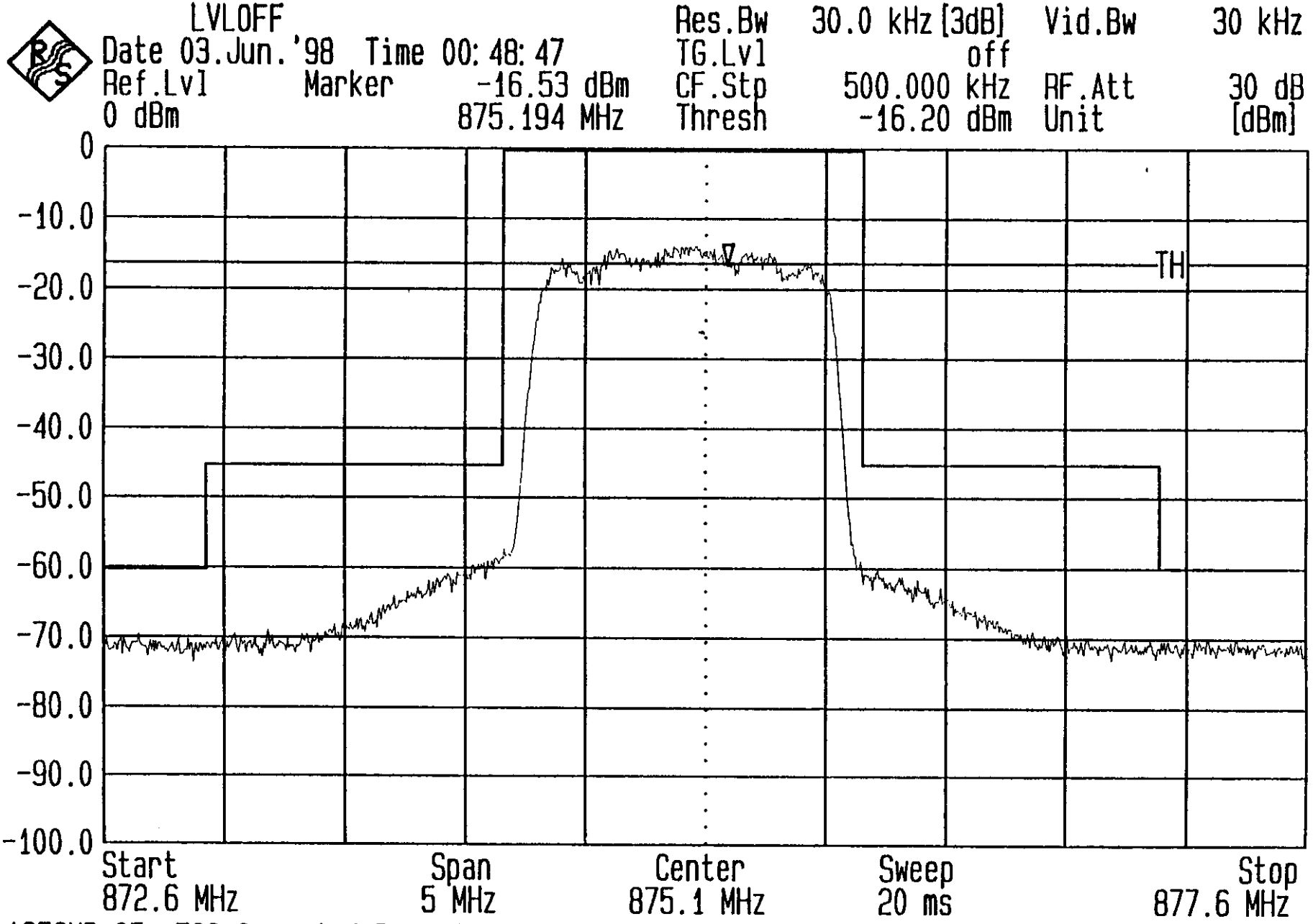
AS5CMP-25 FCC Occupied Bandwidth; A" Band, Channel 1013 48 W at CAM/ 35 W at J4
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



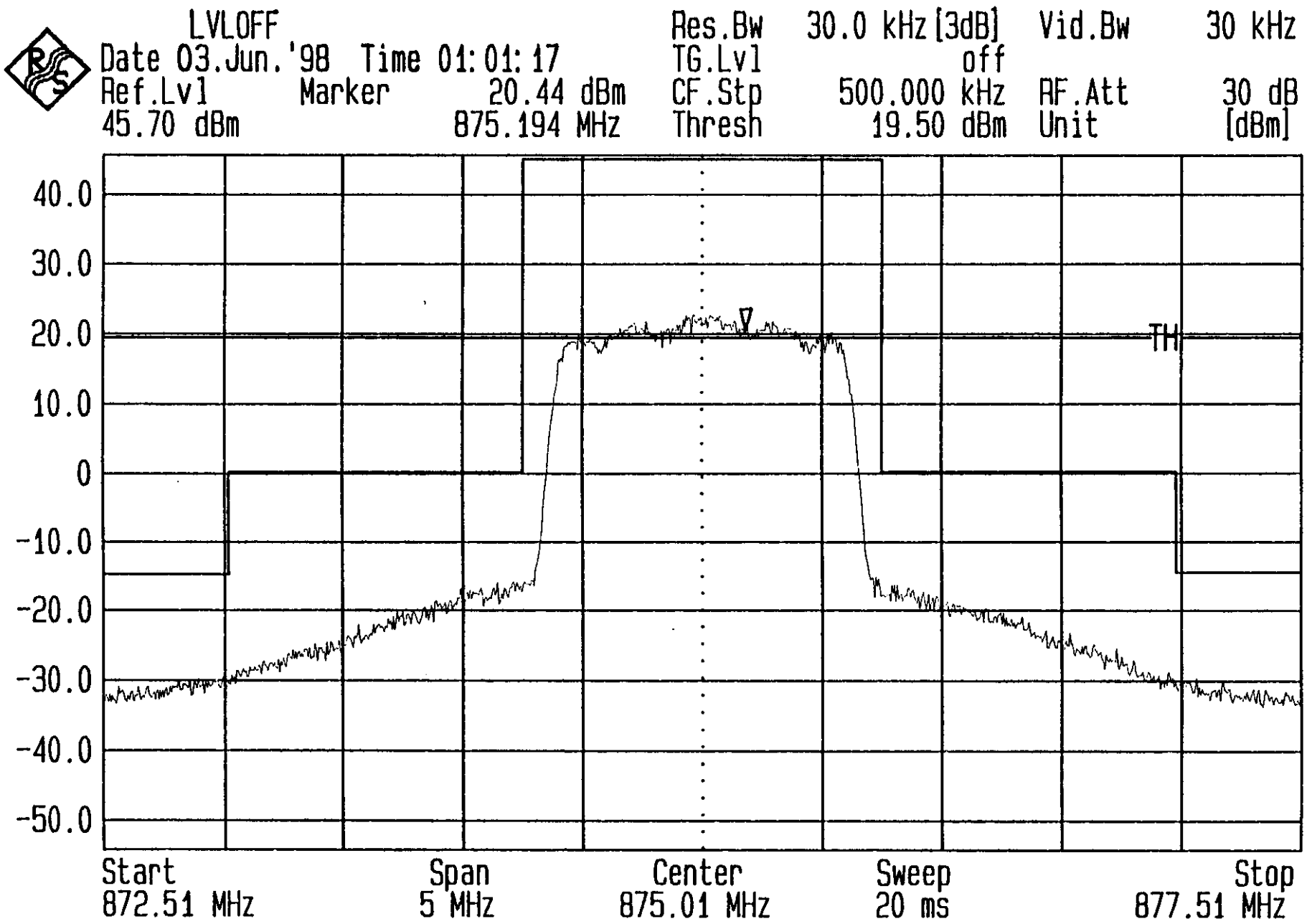
AS5CMP-25 FCC Occupied Bandwidth; A Band, Channel# 25 , INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



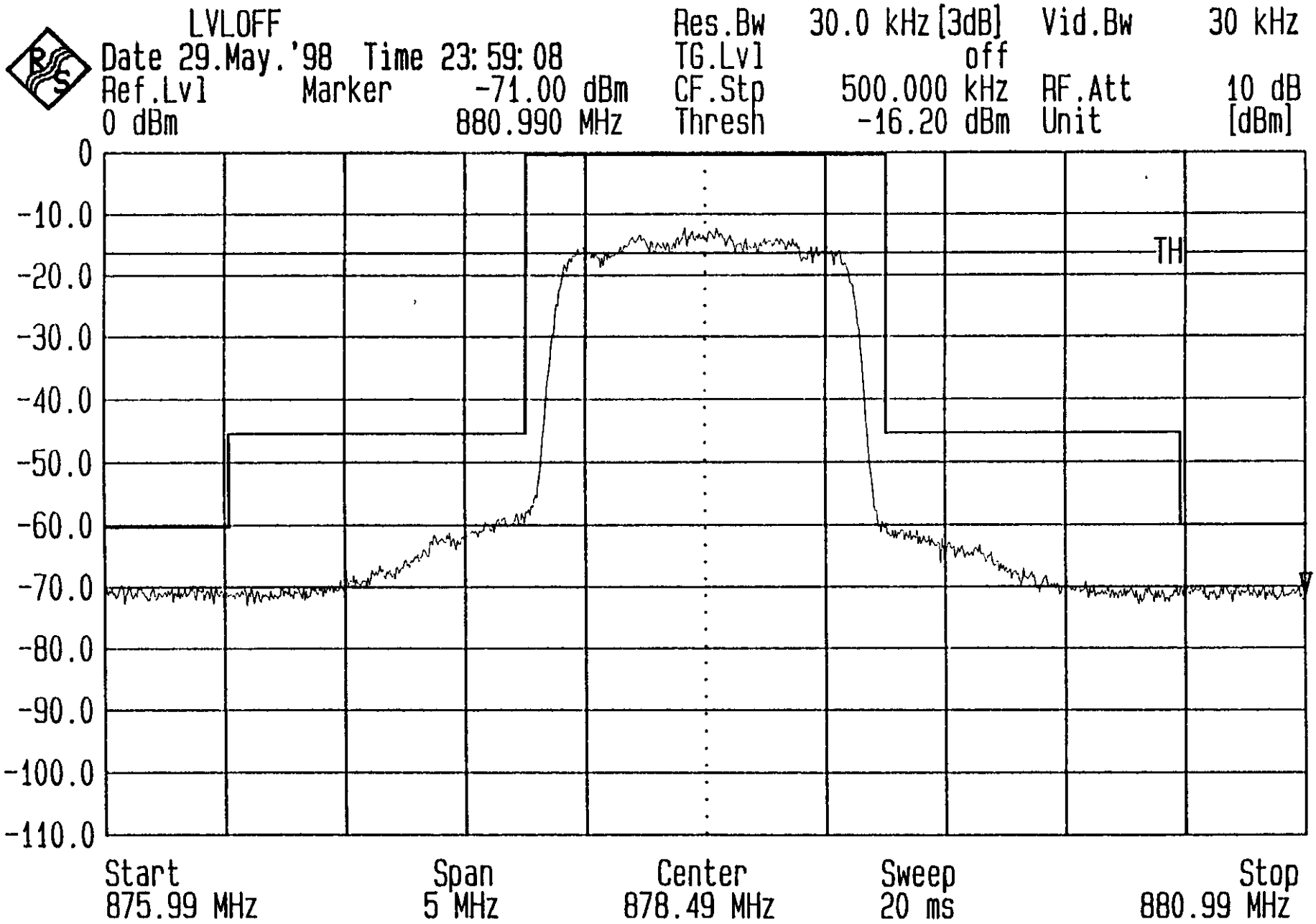
AS5CMP-25 FCC Occupied Bandwidth; A Band, Channel# 25, 48 W at CAM / 35 W at J4
CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



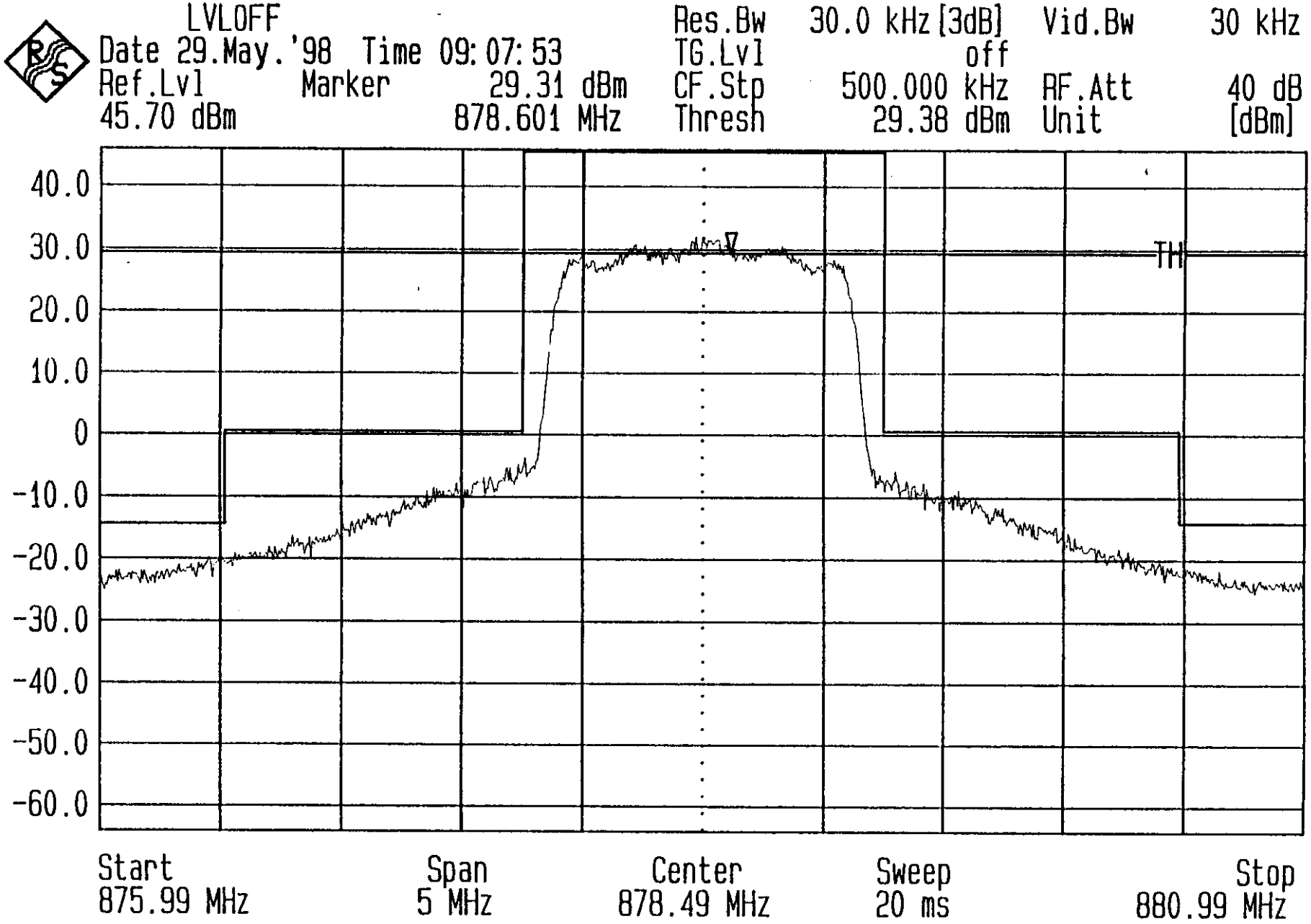
AS5CMP-25 FCC Occupied Bandwidth: A Band Channel# 167: INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



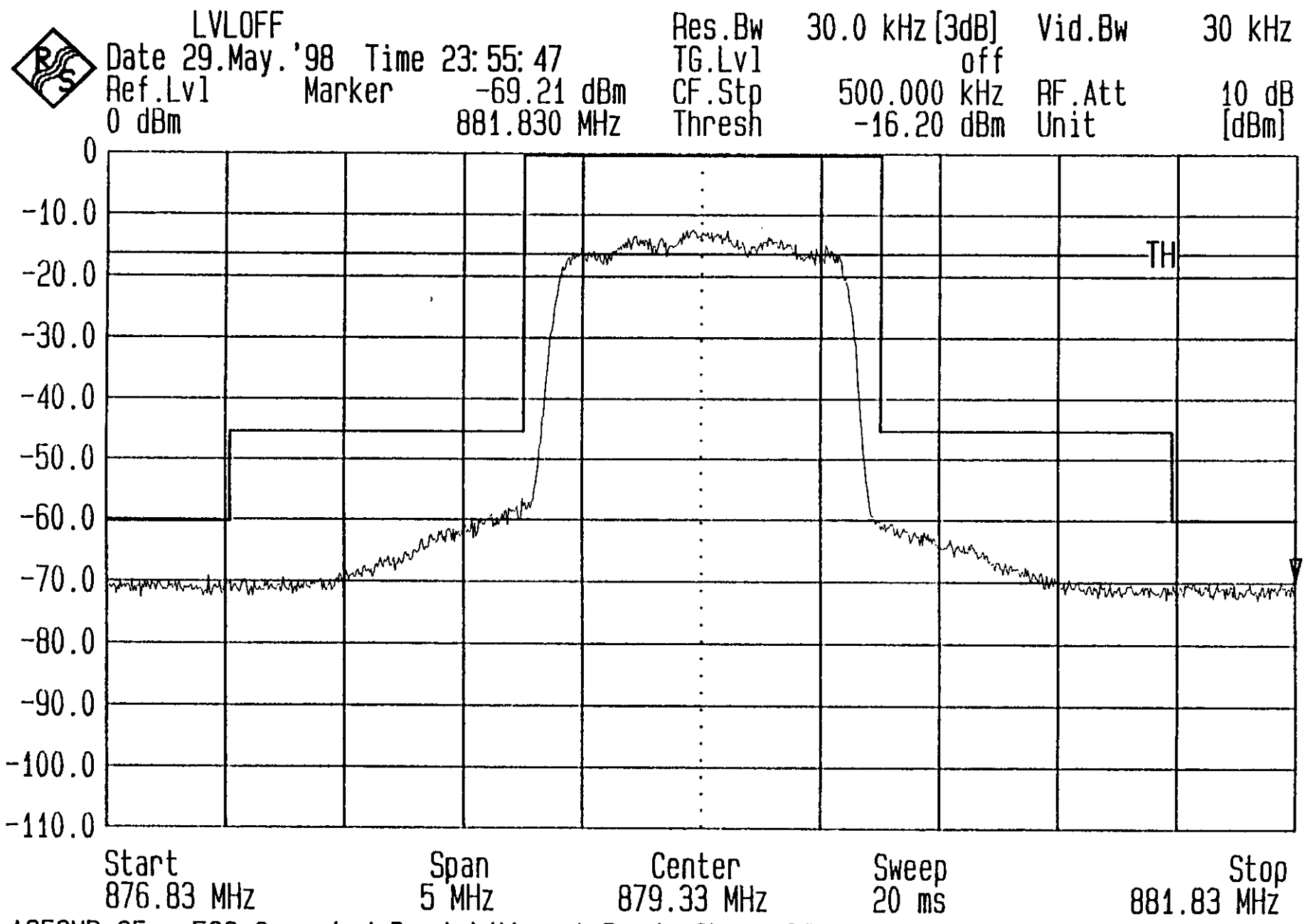
AS5CMP-25 FCC Occupied Bandwidth: A Band Channel# 167: 35W @ J4/ 48 W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



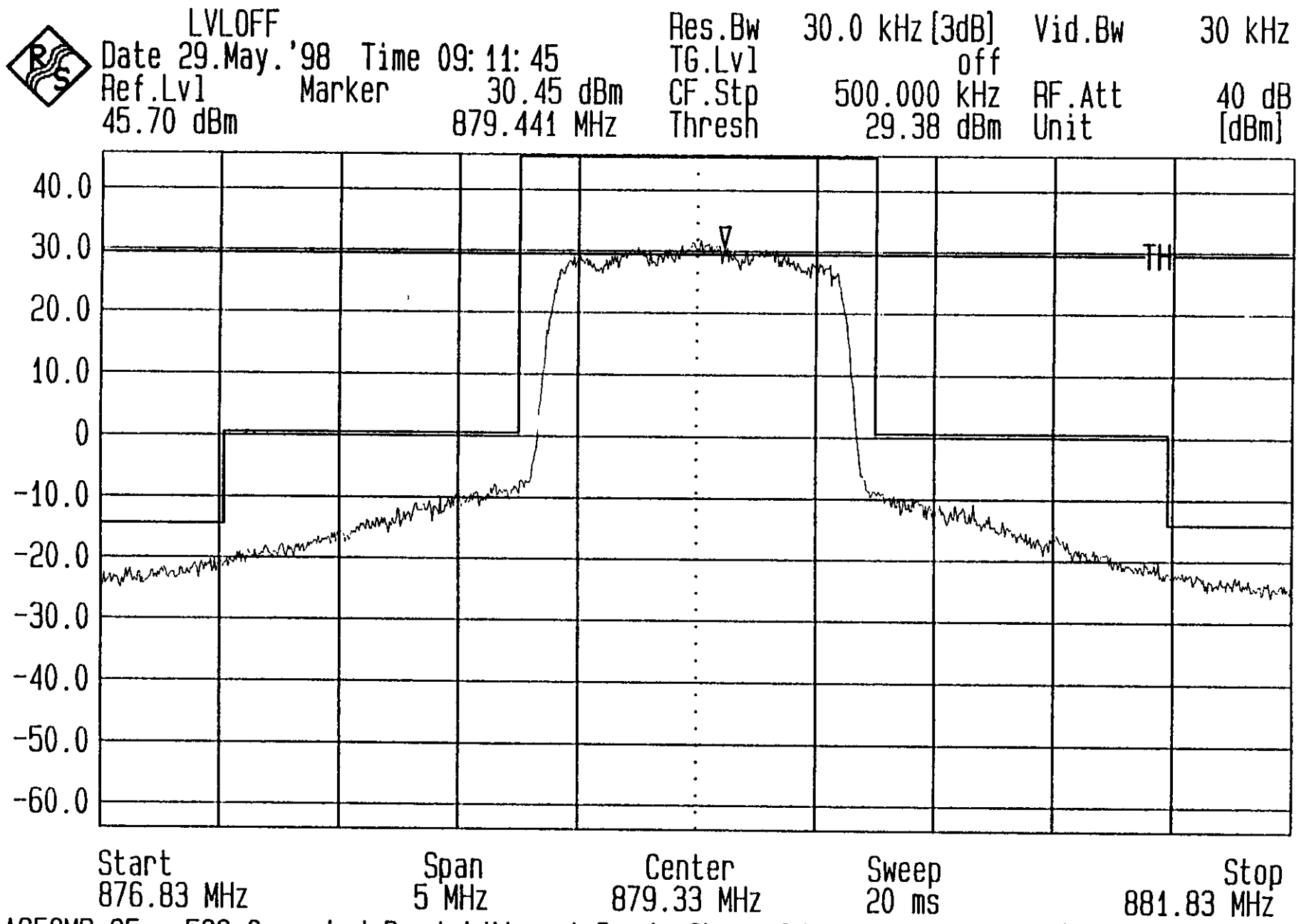
AS5CMP-25 FCC Occupied Bandwidth; A Band, Channel# 283, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



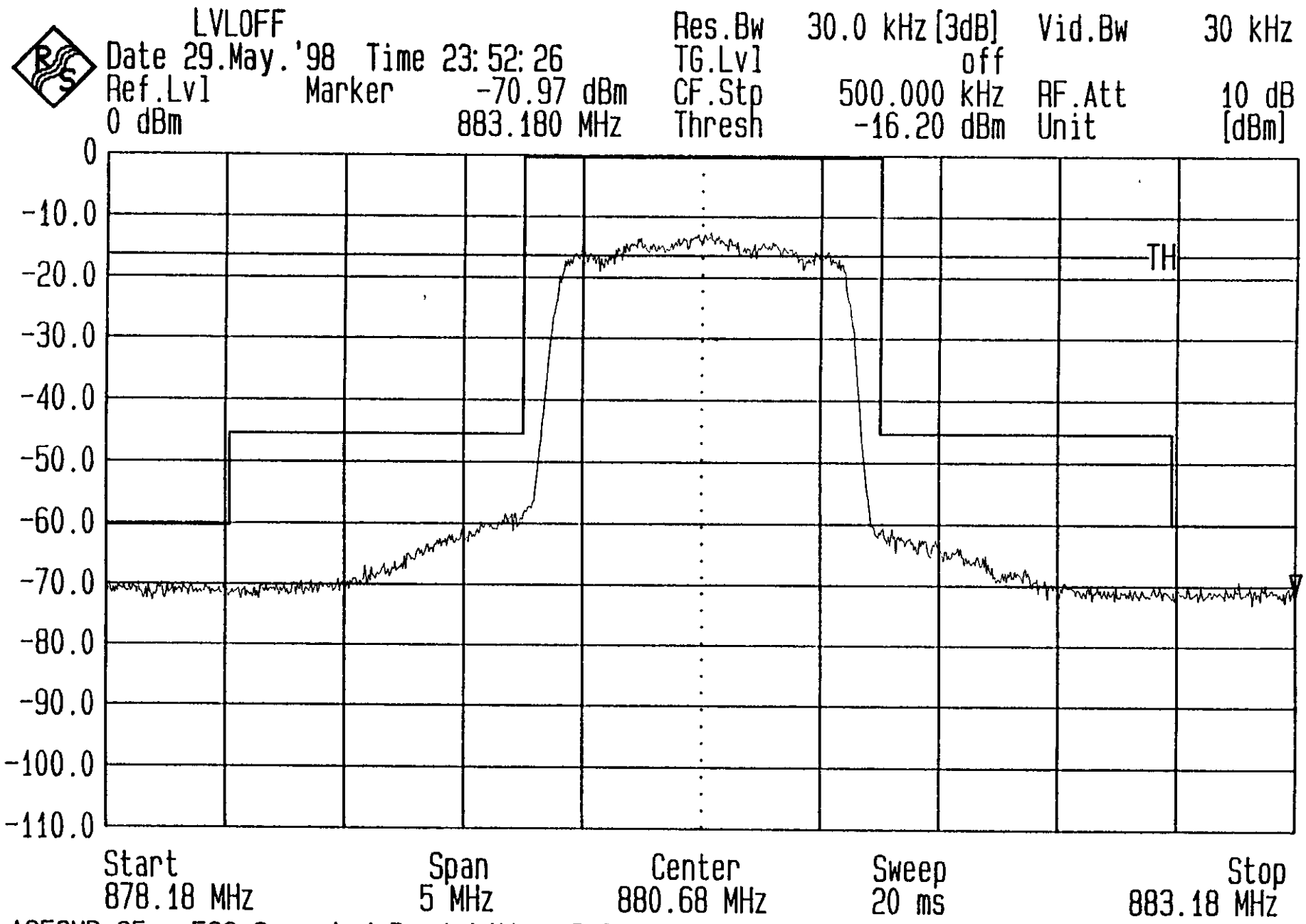
AS5CMP-25 FCC Occupied Bandwidth; A Band, Channel# 283, 48W at CAM/ 35W at J4
CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



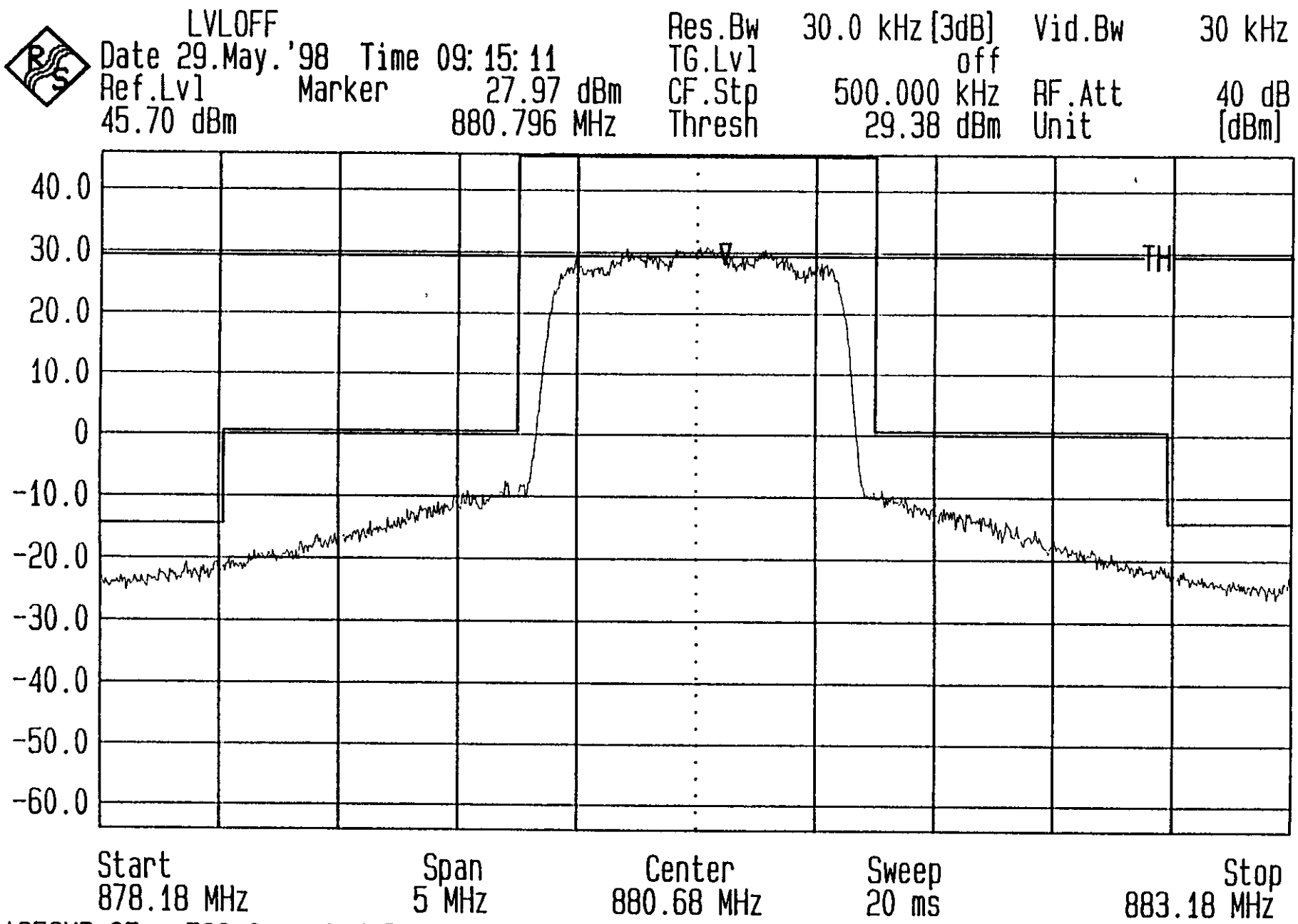
AS5CMP-25 FCC Occupied Bandwidth; A Band, Channel# 311, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



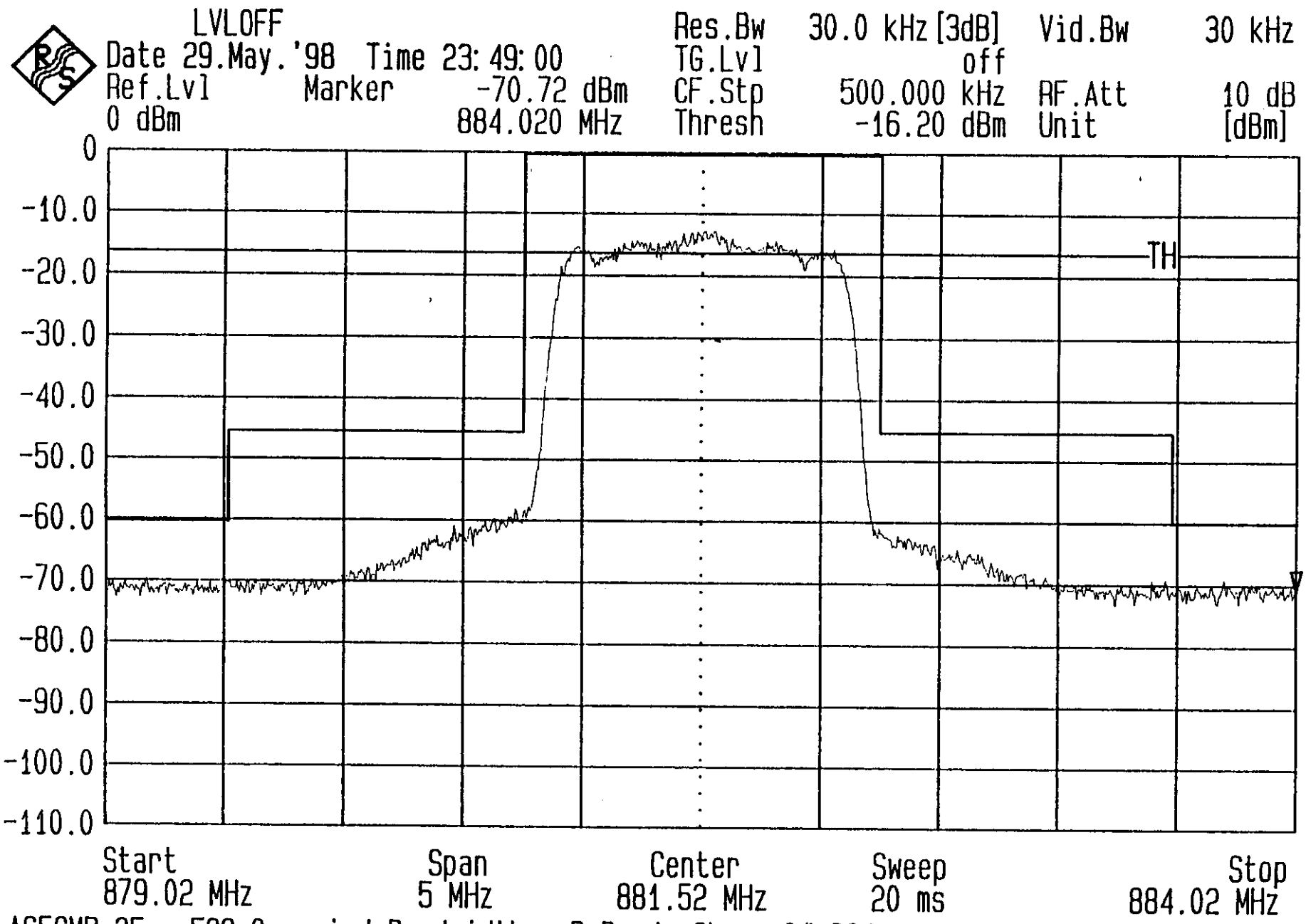
AS5CMP-25 FCC Occupied Bandwidth; A Band, Channel# 311, 48W at CAM/ 35W at J4
CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

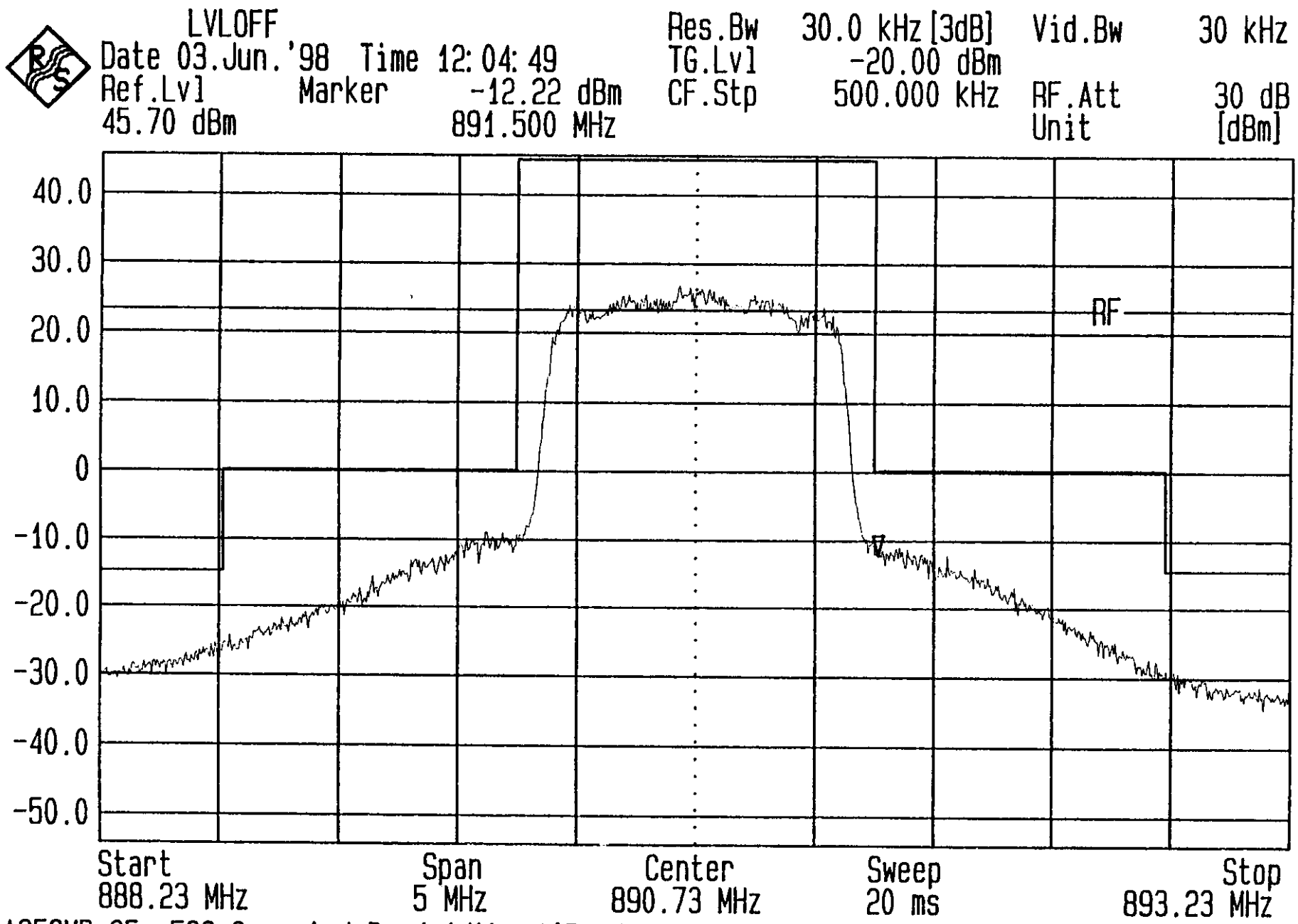


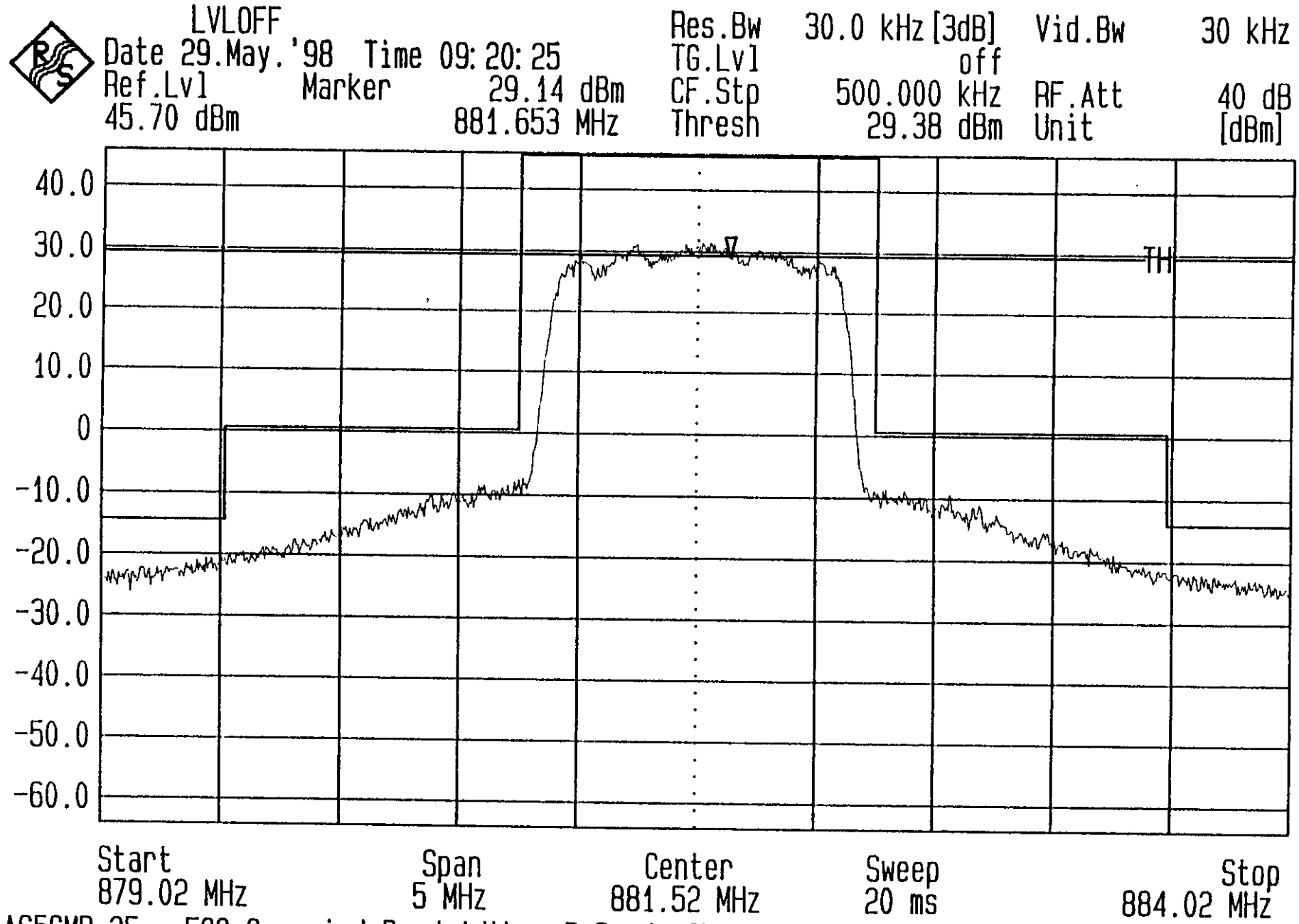
AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 356, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



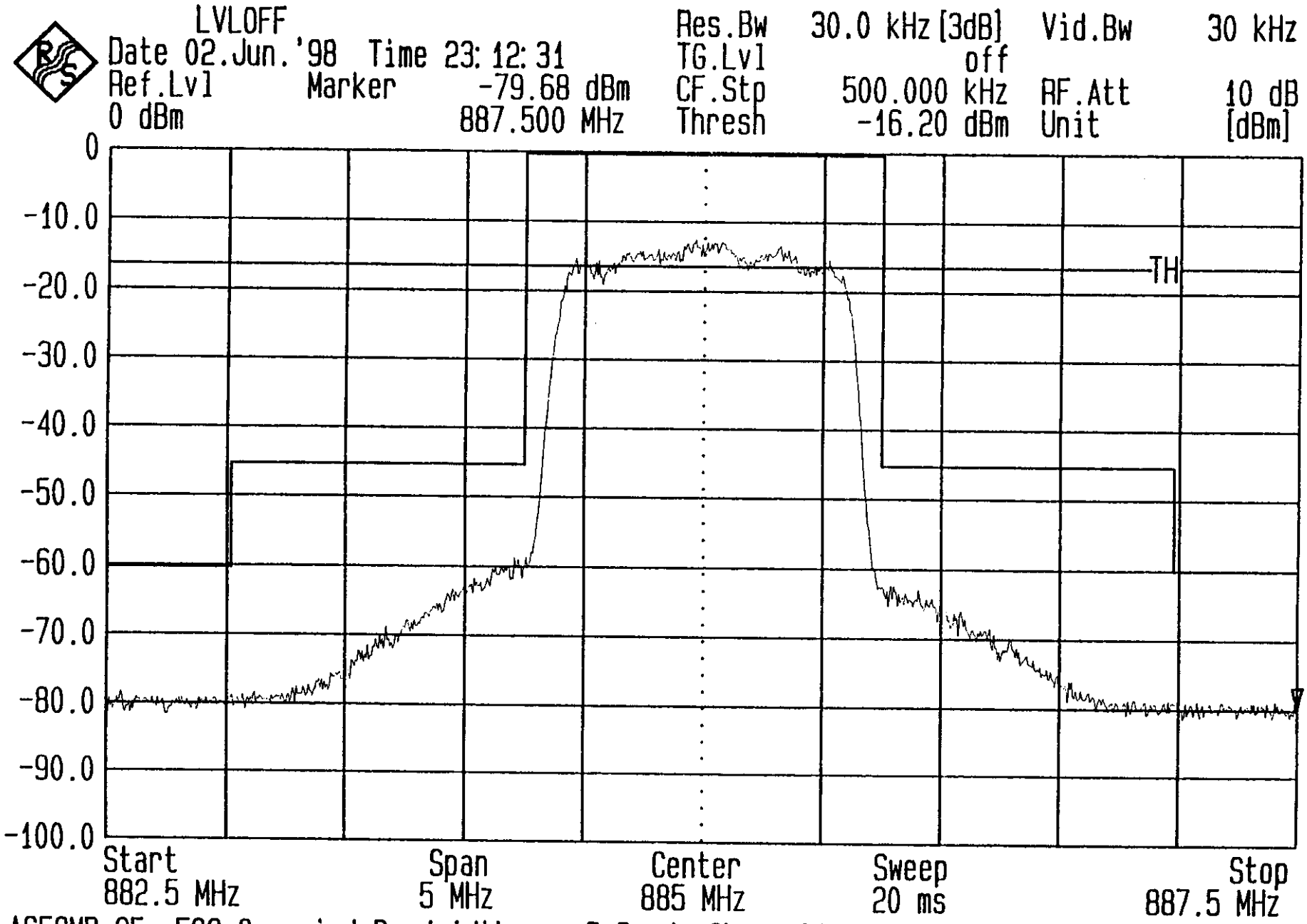
AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 356, 48W at CAM / 35W at J4
CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz


LVLOFF
Res.Bw 30.0 kHz [3dB] Vid.Bw 30 kHz
Date 29.May.'98 Time 23:49:00
TG.Lvl off
Ref.Lvl Marker -70.72 dBm CF.Stp 500.000 kHz RF.Att 10 dB
0 dBm 884.020 MHz Thresh -16.20 dBm Unit [dBm]
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
TH
Start 879.02 MHz
Span 5 MHz
Center 881.52 MHz
Sweep 20 ms
Stop 884.02 MHz
AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 384, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

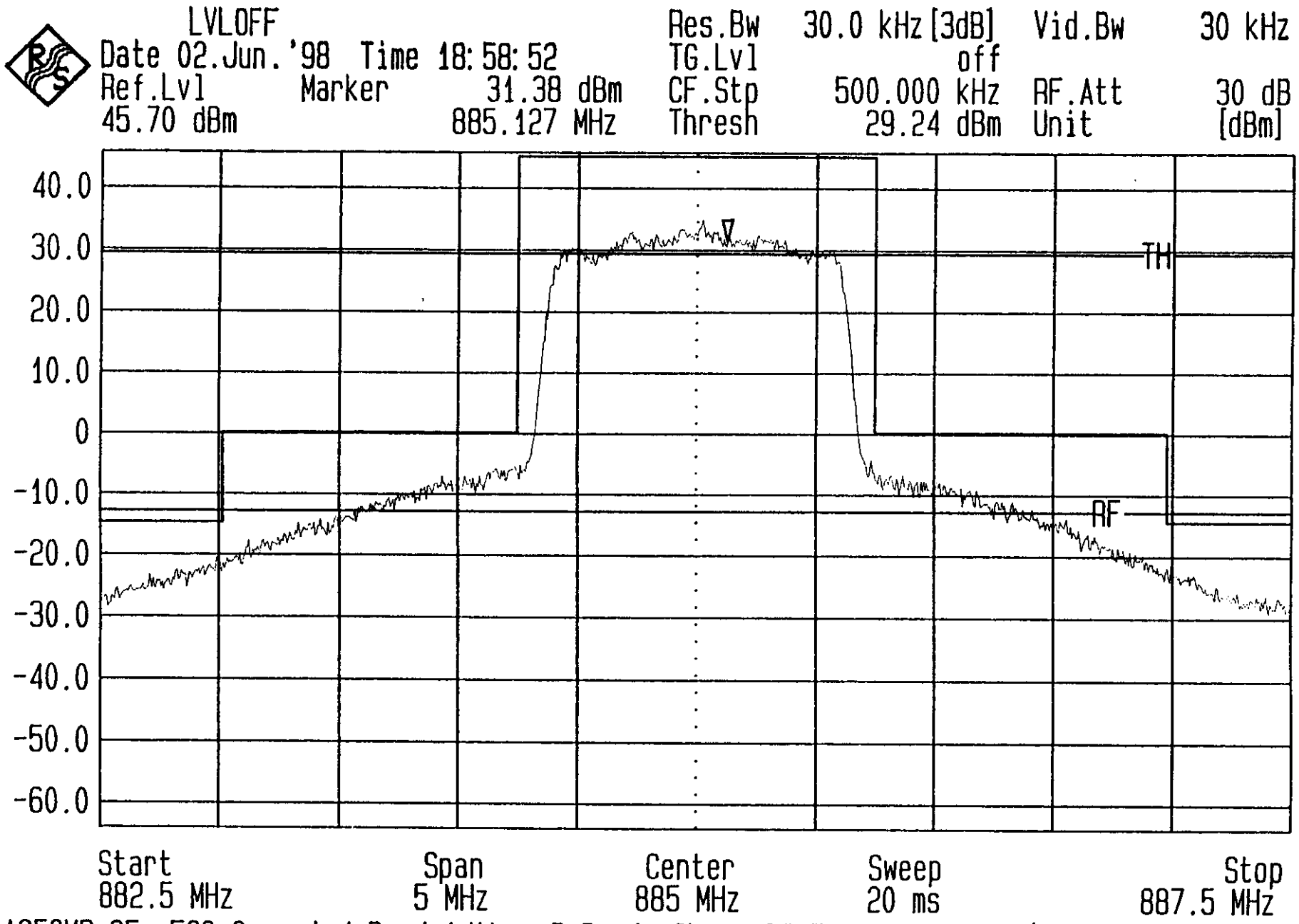

LVLOFF
Res.Bw 30.0 kHz [3dB]
Vid.Bw 30 kHz
Date 03.Jun.'98 Time 12:04:49
TG.Lvl -20.00 dBm
Ref.Lvl Marker -12.22 dBm
CF.Stp 500.000 kHz
RF.Att 30 dB
45.70 dBm 891.500 MHz
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
RF
Start 888.23 MHz
Span 5 MHz
Center 890.73 MHz
Sweep 20 ms
Stop 893.23 MHz
AS5CMP-25 FCC Occupied Bandwidth A'Band Channel# 384 35 W @ J4 48 W @ CAM 9 codes
CAM IS-97 Mask: -45 dBc at Fc +/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



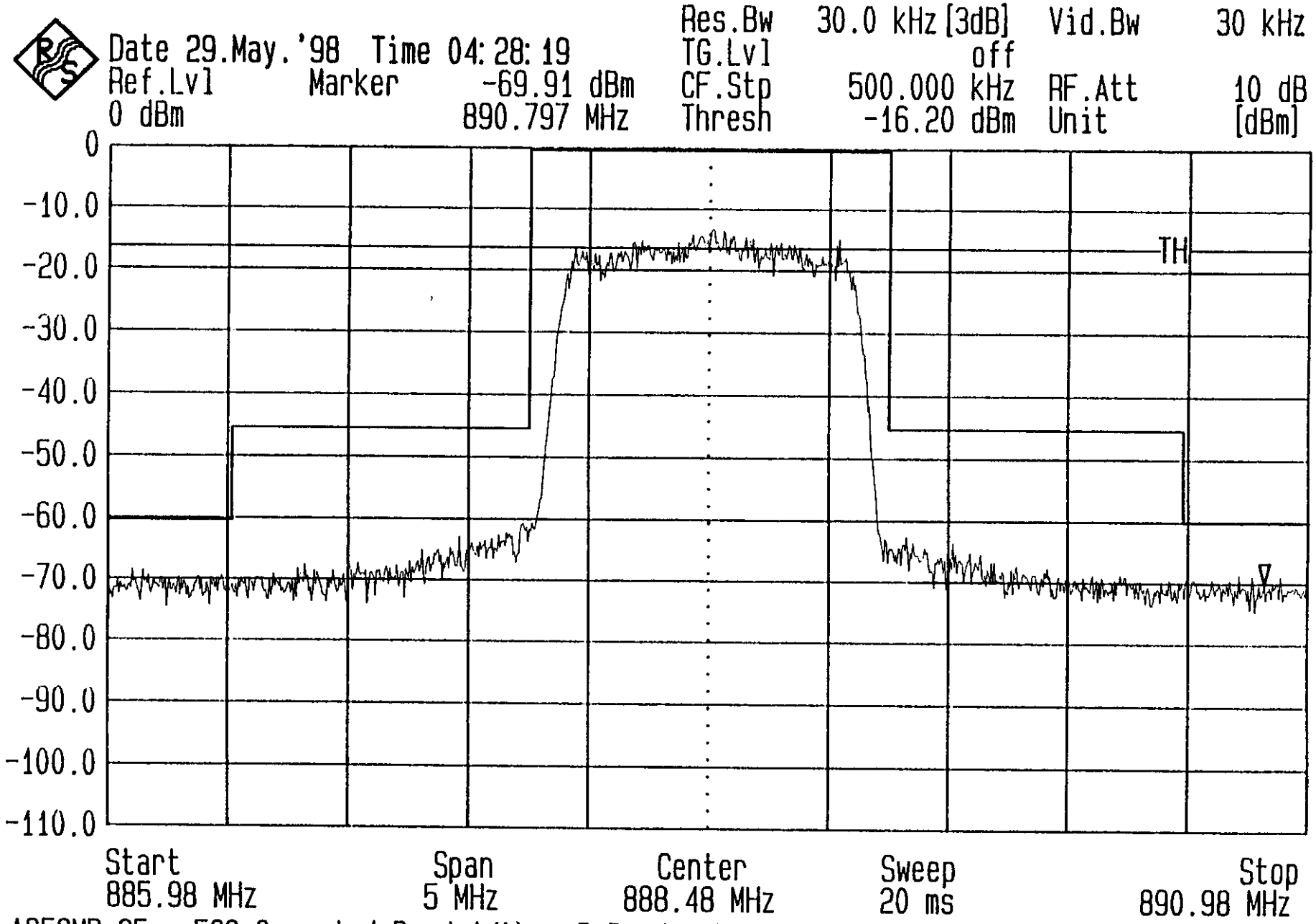
AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 384, 48W at CAM/ 35W at J4
CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz



AS5CMP-25 FCC Occupied Bandwidth: B Band Channel# 500: INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



AS5CMP-25 FCC Occupied Bandwidth: B Band Channel# 500: 35 W @ J4/ 48 W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 616, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

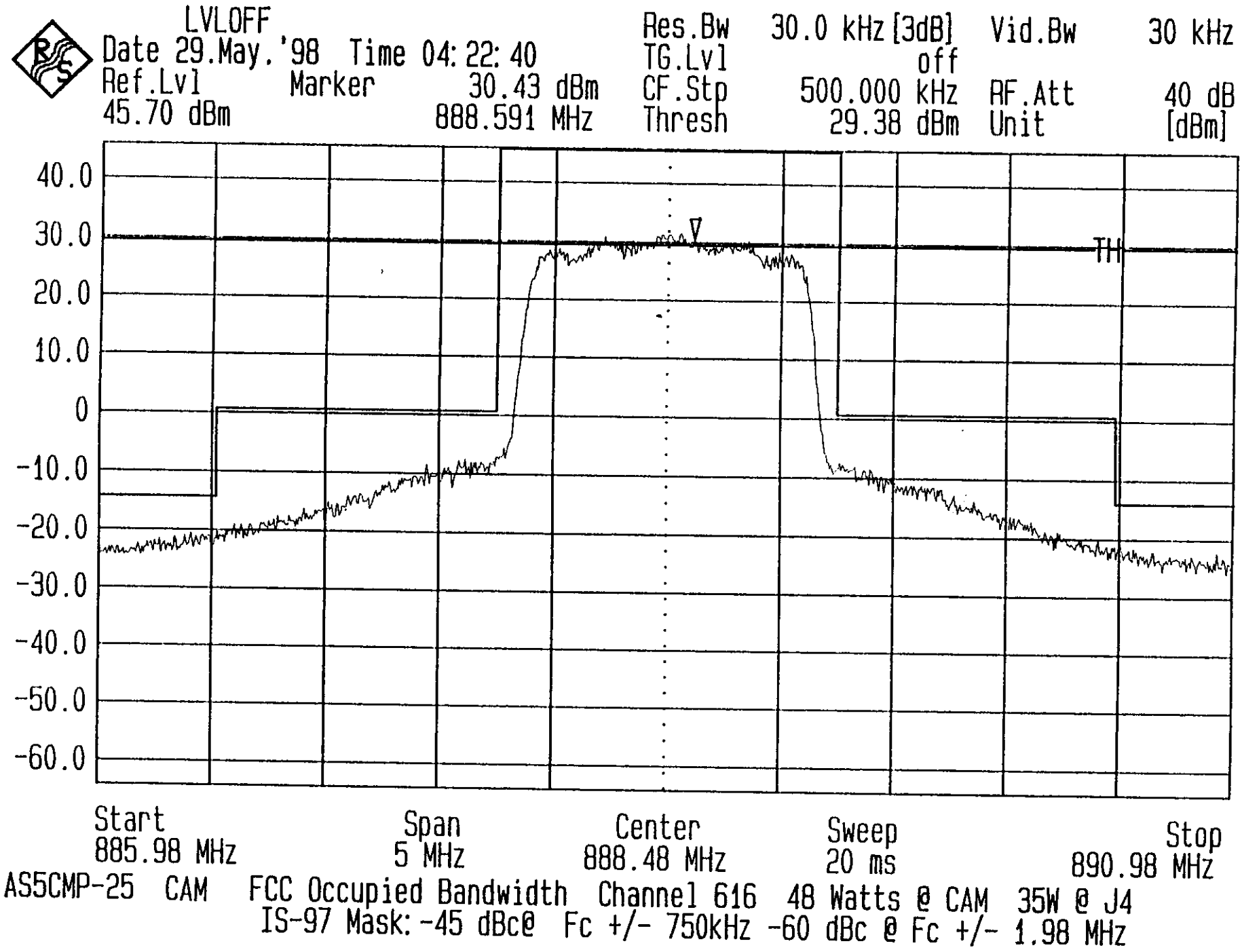

LVLOFF
Date 29.May.'98 Time 04:22:40
Ref.Lvl
45.70 dBm
Marker
30.43 dBm
888.591 MHz
Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 500.000 kHz
Thresh 29.38 dBm
Vid.Bw 30 kHz
RF.Att 40 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
TH
Start
885.98 MHz
Span
5 MHz
Center
888.48 MHz
Sweep
20 ms
Stop
890.98 MHz
AS5CMP-25 CAM FCC Occupied Bandwidth Channel 616 48 Watts @ CAM 35W @ J4
IS-97 Mask: -45 dBc@ Fc +/- 750kHz -60 dBc @ Fc +/- 1.98 MHz

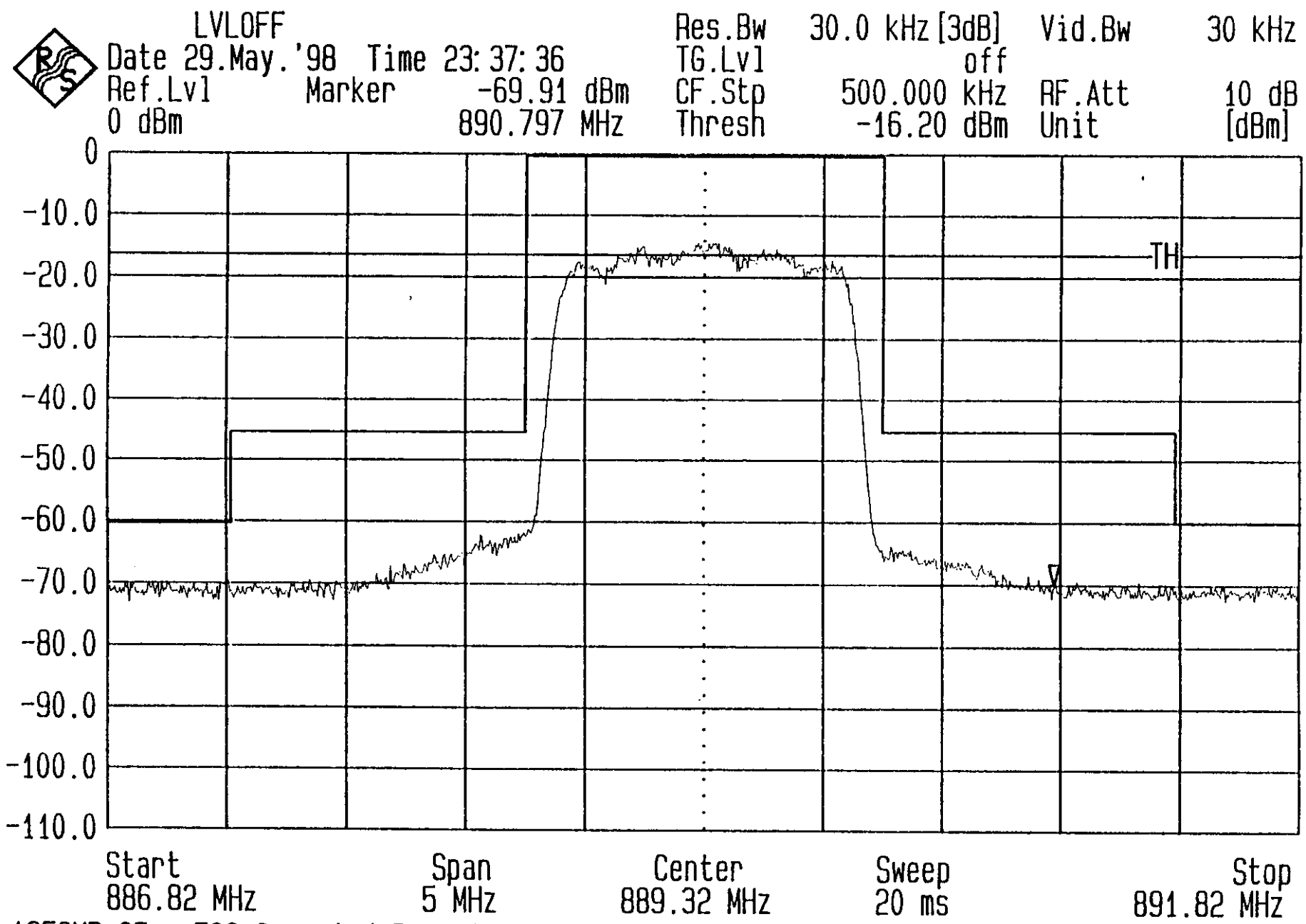
Exhibit 19

SECTION 2.983 (g)

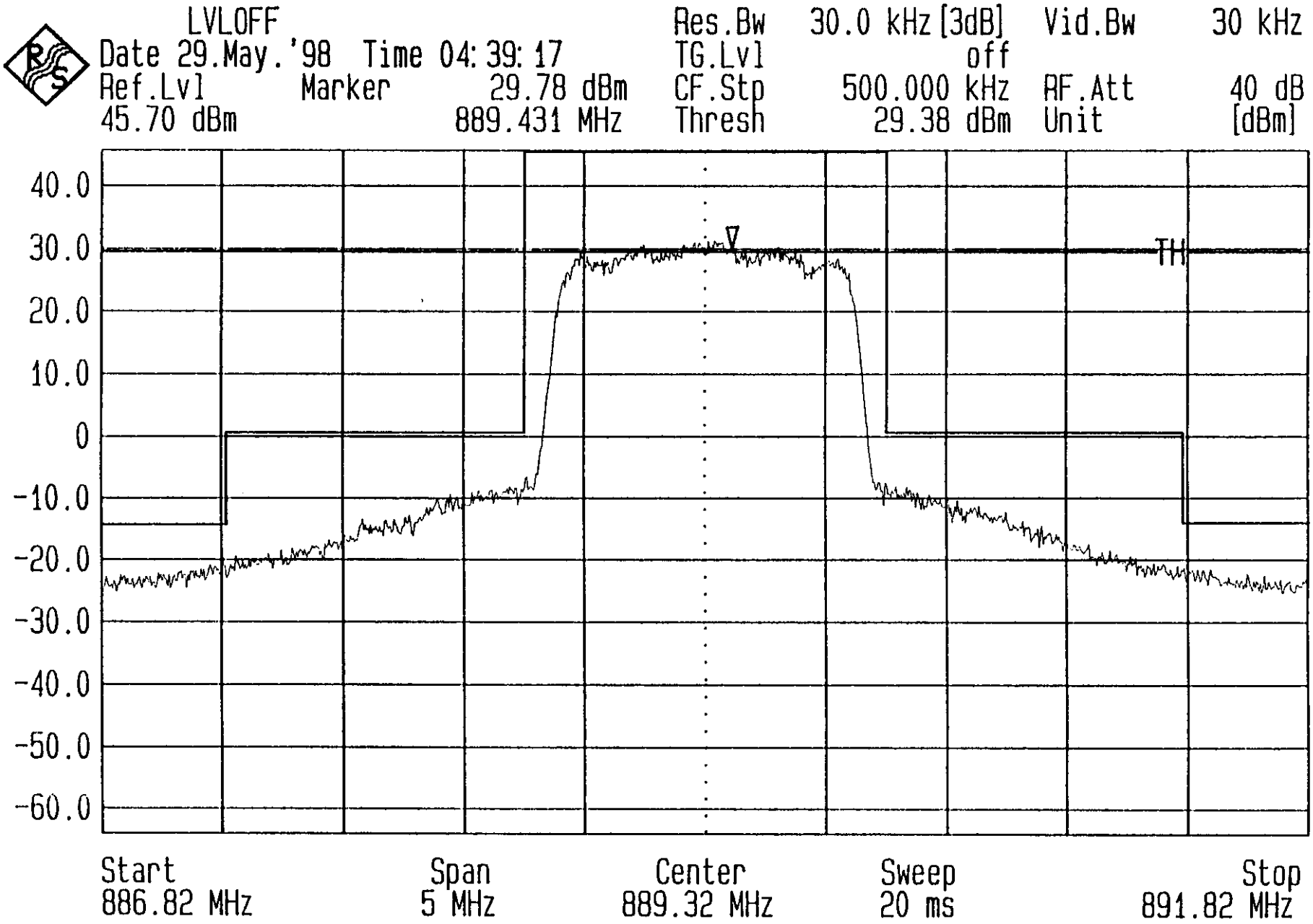
Photographs (8"xlO") of the equipment of sufficient clarity to reveal equipment construction and layout, including meters, if any, and labels for controls and meters and sufficient views of the internal construction to define component placement and chassis assembly. Insofar as these requirements are met by photographs or drawings contained in the instruction manuals supplied with the type acceptance request, additional photographs are necessary only to complete the required showing.

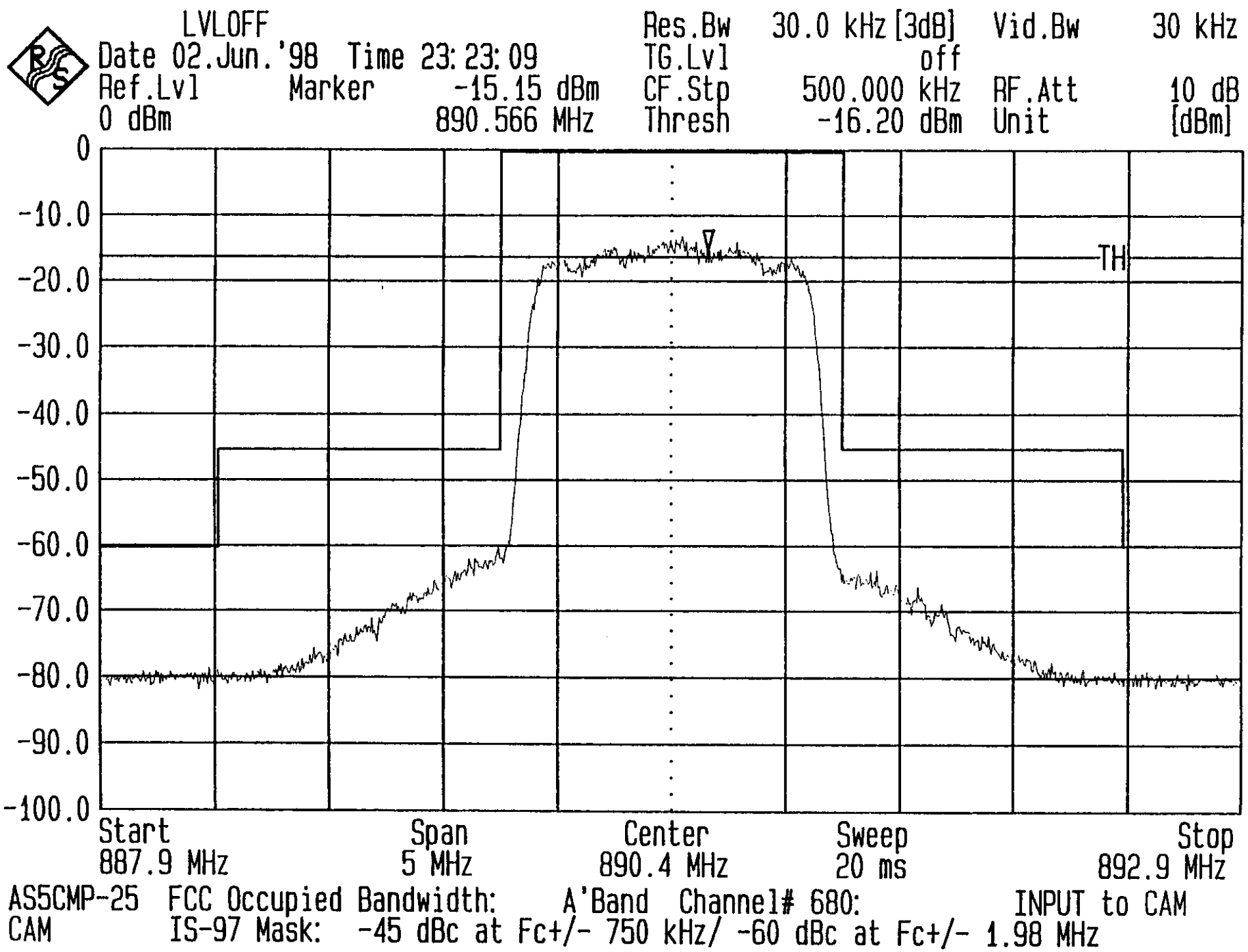
RESPONSE:

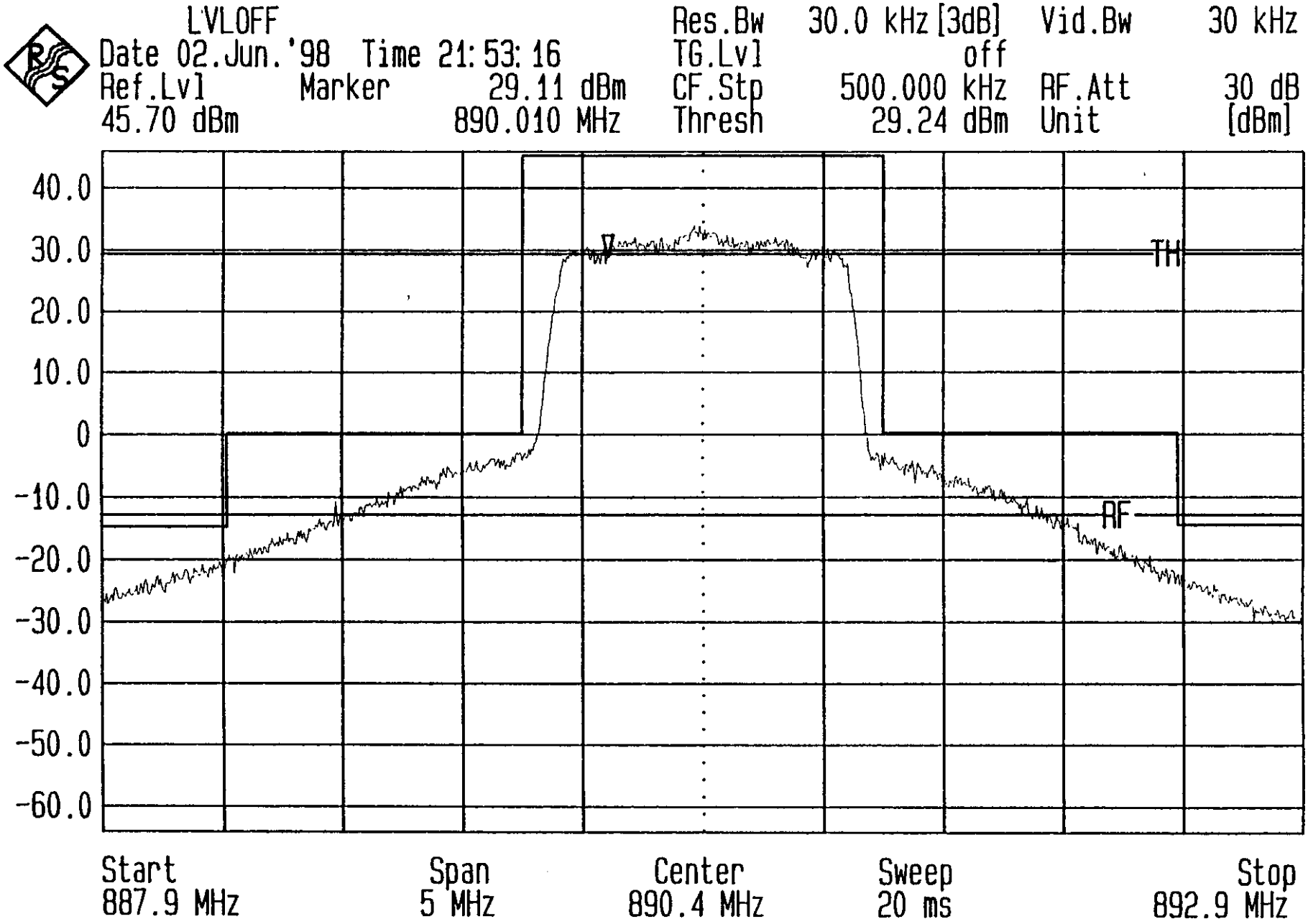
The following photographs show the construction and layout of the CAM.



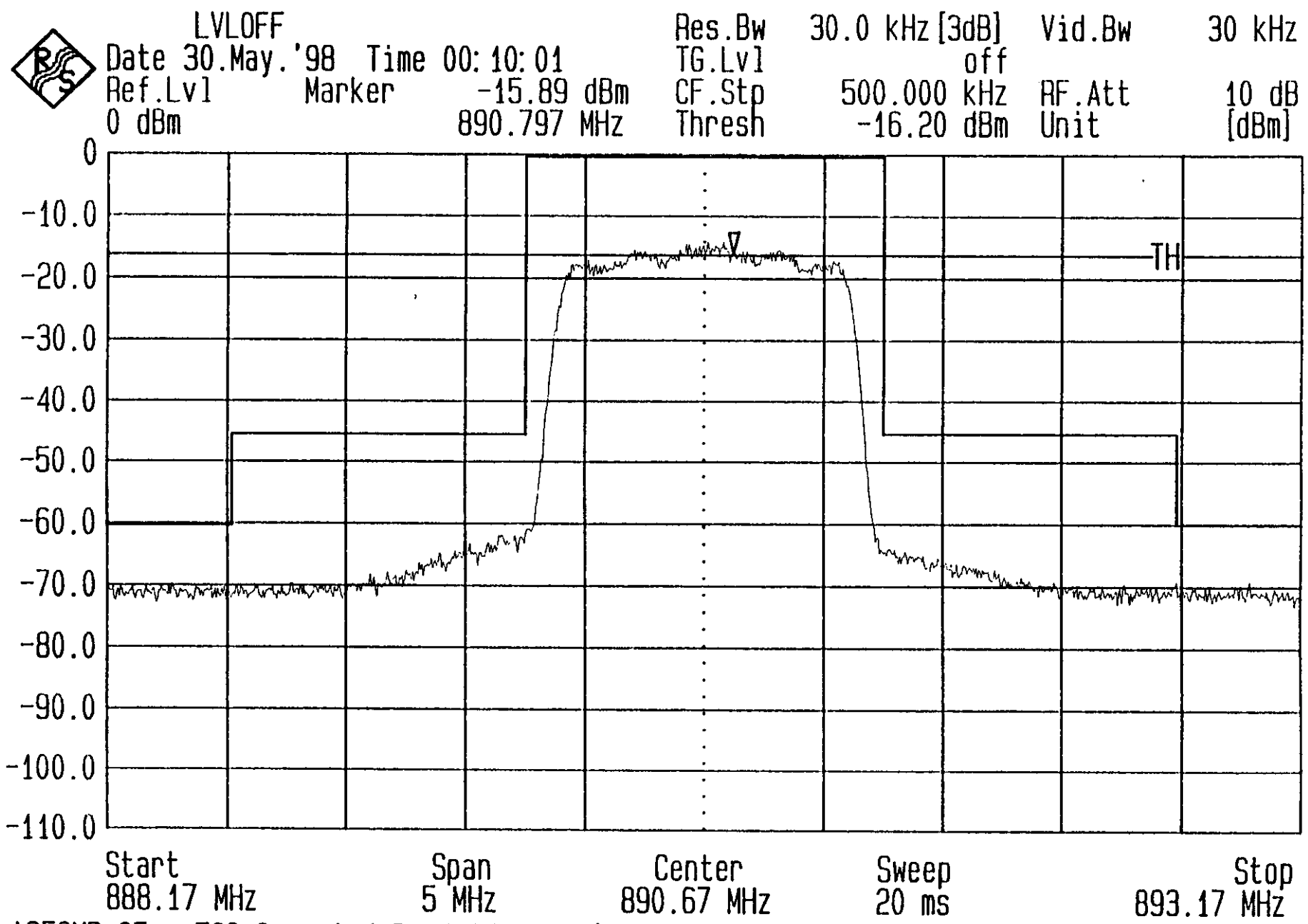
AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 644, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz


LVLOFF
Res.Bw 30.0 kHz [3dB]
Vid.Bw 30 kHz
Date 29.May.'98 Time 04:39:17
TG.Lvl off
Ref.Lvl Marker 29.78 dBm
CF.Stp 500.000 kHz
RF.Att 40 dB
45.70 dBm 889.431 MHz
Thresh 29.38 dBm
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
TH
Start 886.82 MHz
Span 5 MHz
Center 889.32 MHz
Sweep 20 ms
Stop 891.82 MHz
AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel 644 48 W at CAM/ 35 W at J4
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

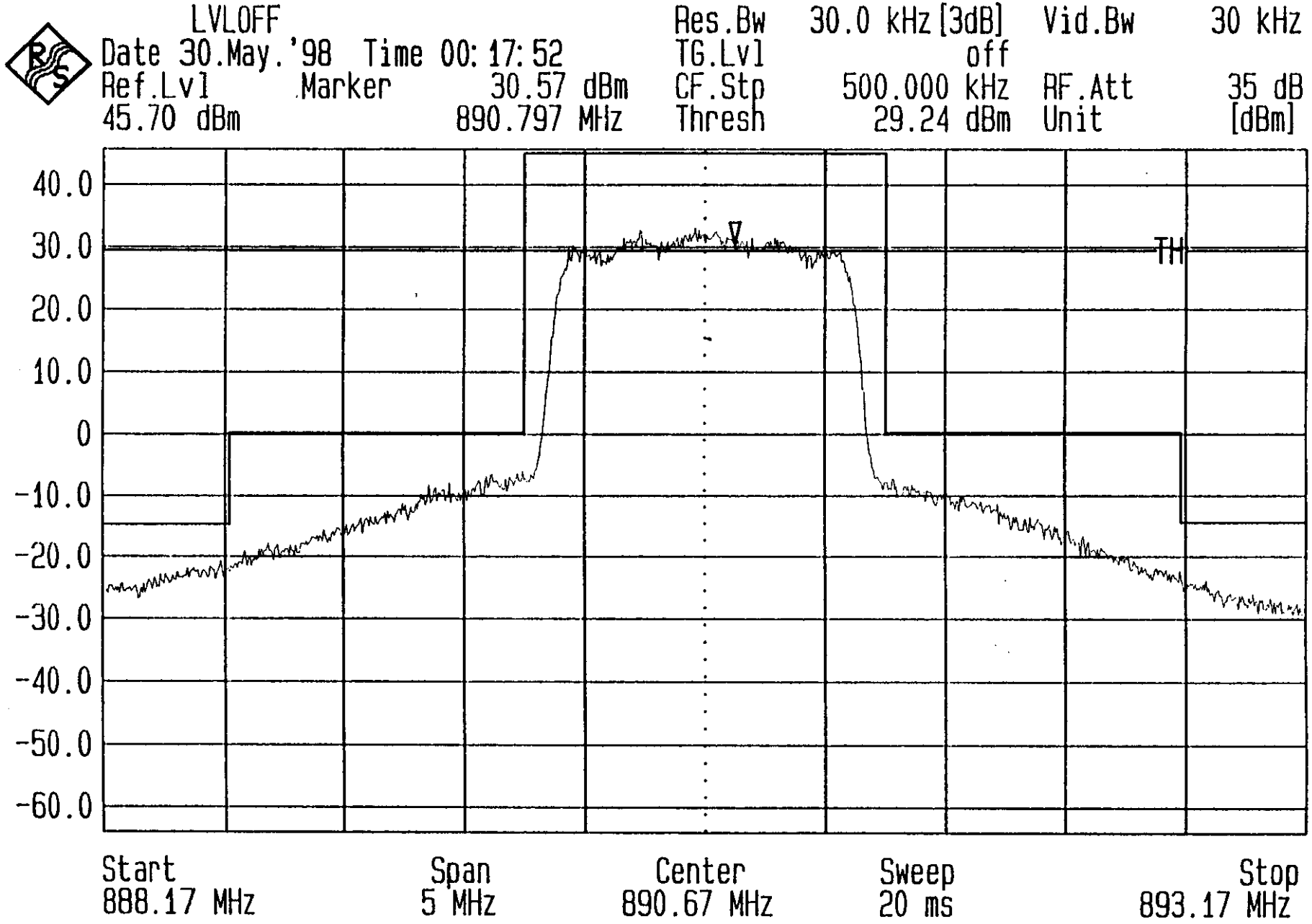

LVLOFF
Res.Bw 30.0 kHz [3dB]
Vid.Bw 30 kHz
Date 02.Jun.'98 Time 23:23:09
TG.Lvl off
Ref.Lvl Marker -15.15 dBm
CF.Stp 500.000 kHz
RF.Att 10 dB
0 dBm 890.566 MHz
Thresh -16.20 dBm
Unit [dBm]
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
TH
Start 887.9 MHz
Span 5 MHz
Center 890.4 MHz
Sweep 20 ms
Stop 892.9 MHz
AS5CMP-25 FCC Occupied Bandwidth: A'Band Channel# 680: INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



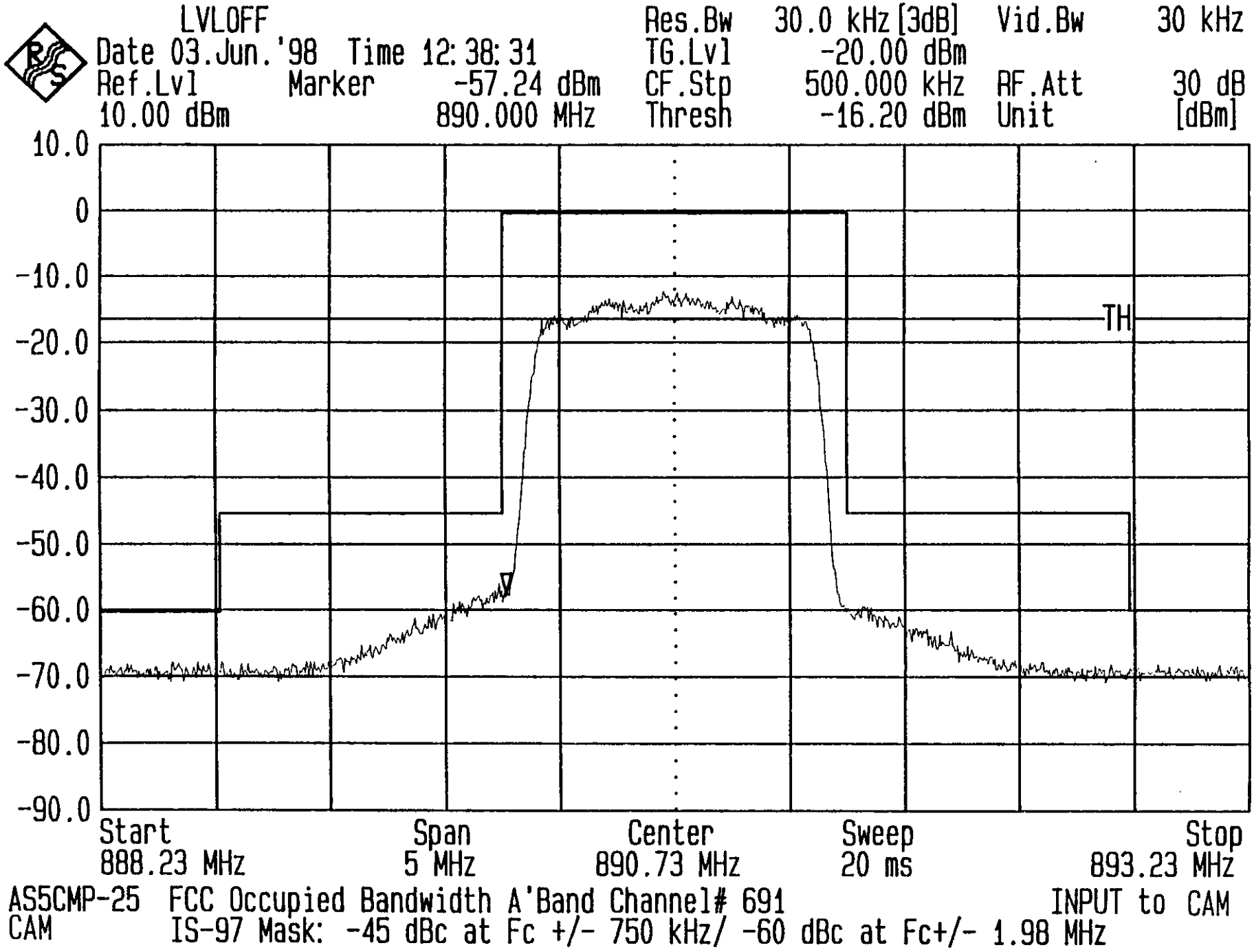
AS5CMP-25 FCC Occupied Bandwidth: A'Band Channel# 680: 35 W @ J4/ 50.7W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz

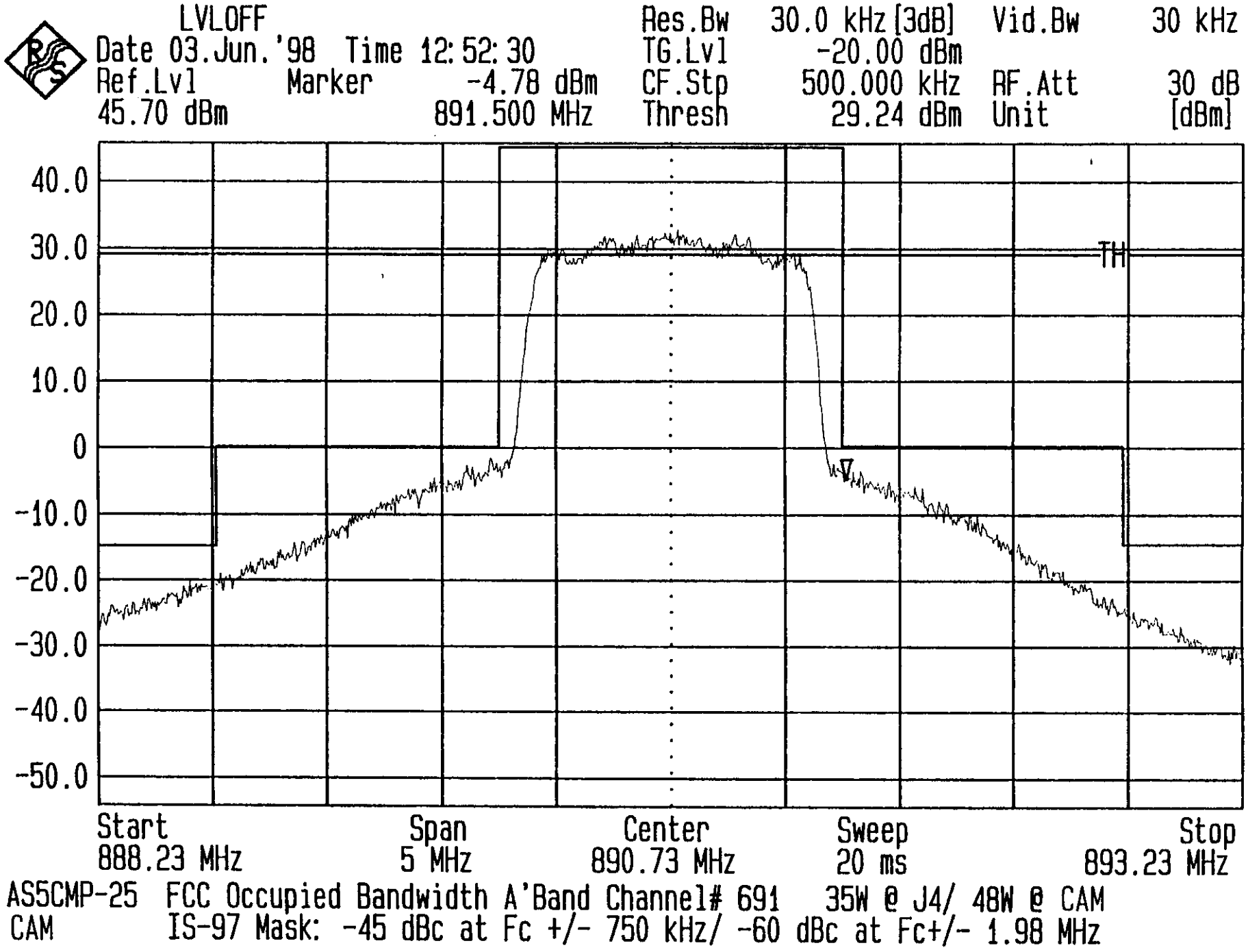


AS5CMP-25 FCC Occupied Bandwidth; A' Band, Channel# 689, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

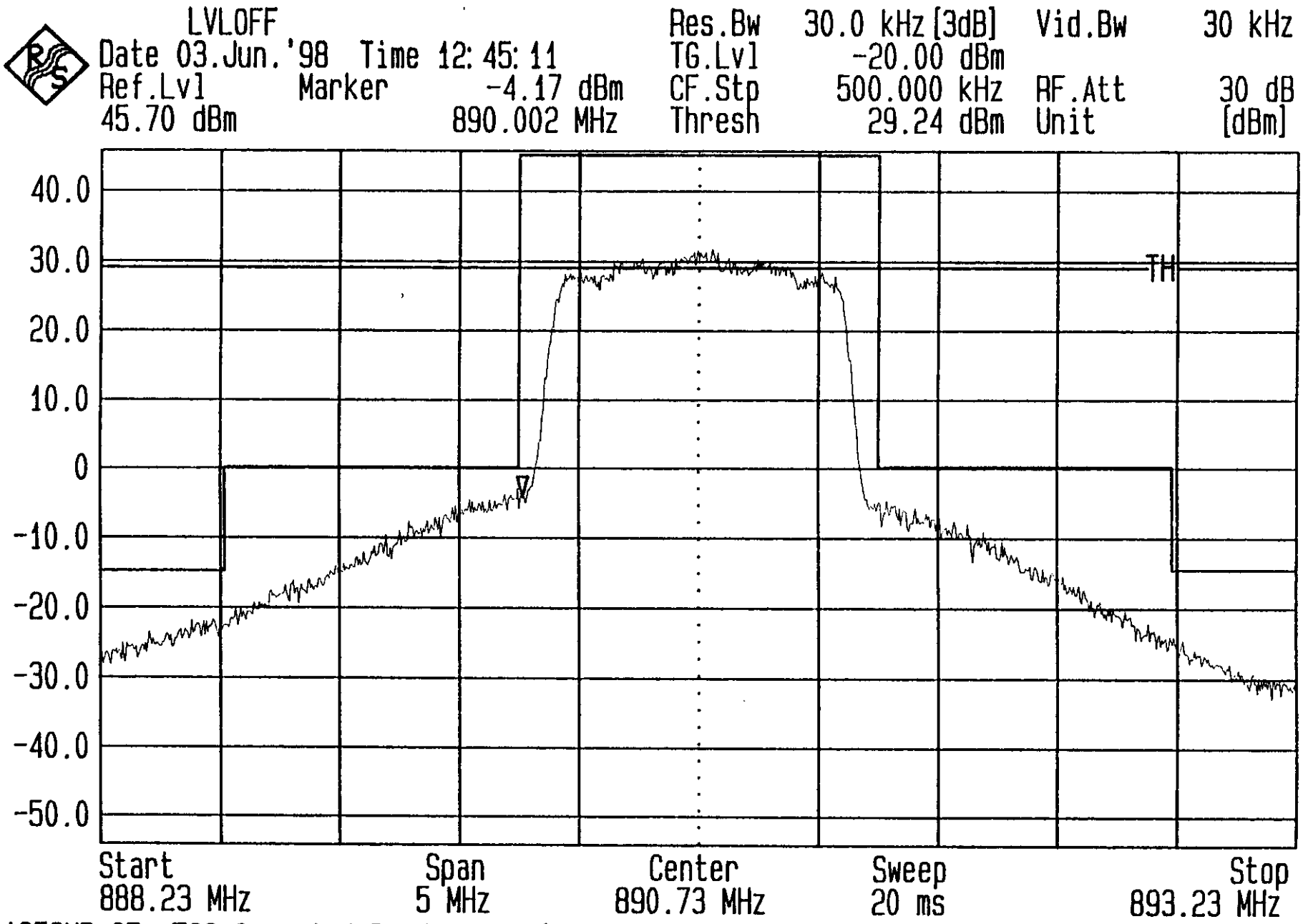


AS5CMP-25 FCC Occupied Bandwidth; A' Band, Channel# 689, 48W at CAM/ 35W at J4
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

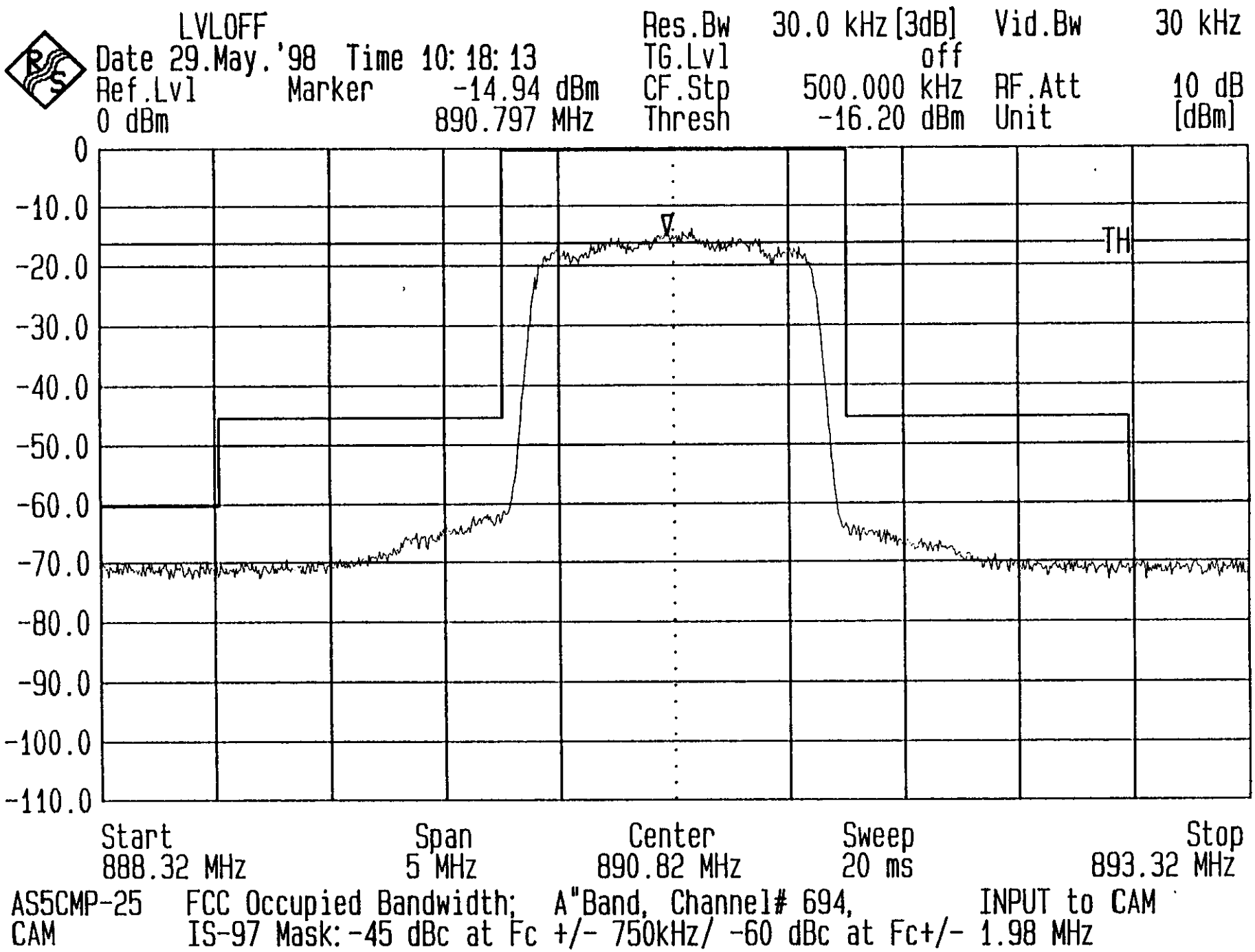

LVLOFF
Res.Bw 30.0 kHz [3dB]
Vid.Bw 30 kHz
Date 03.Jun.'98 Time 12:38:31
TG.Lvl -20.00 dBm
Ref.Lvl Marker -57.24 dBm
CF.Stp 500.000 kHz
RF.Att 30 dB
10.00 dBm 890.000 MHz
Thresh -16.20 dBm
Unit [dBm]
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
TH
Start 888.23 MHz
Span 5 MHz
Center 890.73 MHz
Sweep 20 ms
Stop 893.23 MHz
AS5CMP-25 FCC Occupied Bandwidth A'Band Channel# 691
INPUT to CAM
CAM
IS-97 Mask: -45 dBc at Fc +/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz

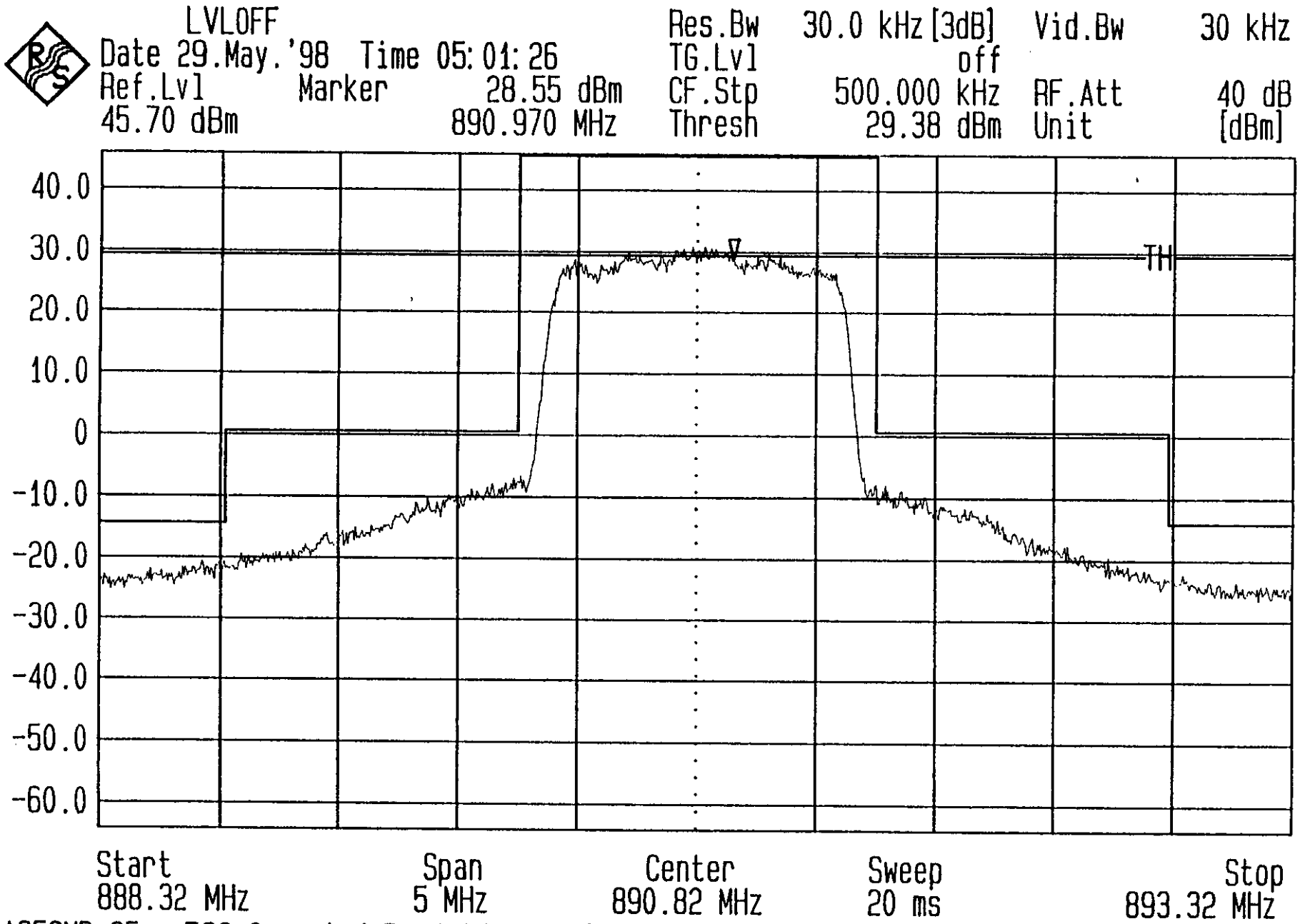


AS5CMP-25 FCC Occupied Bandwidth A'Band Channel# 691 35W @ J4/ 48W @ CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz

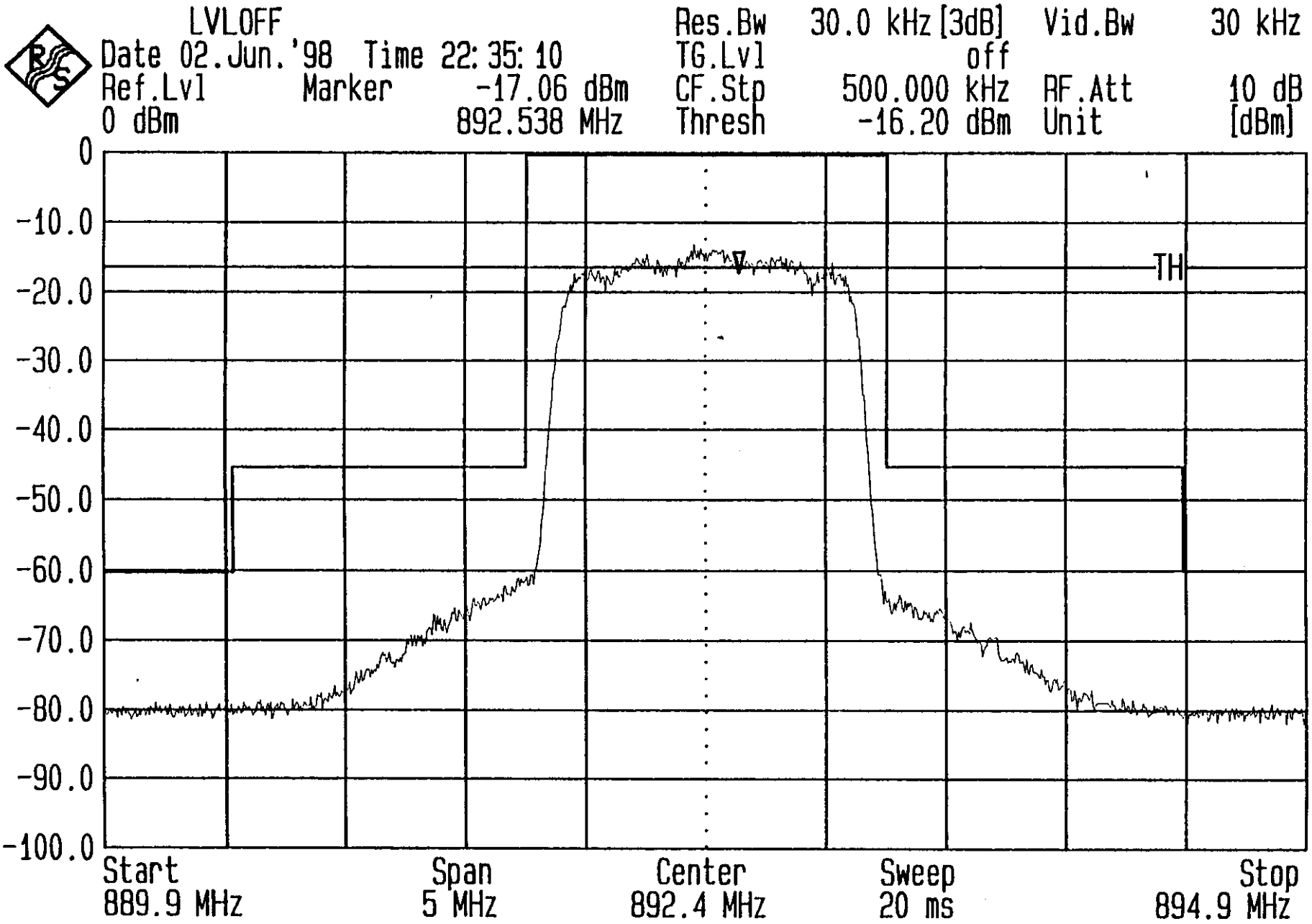


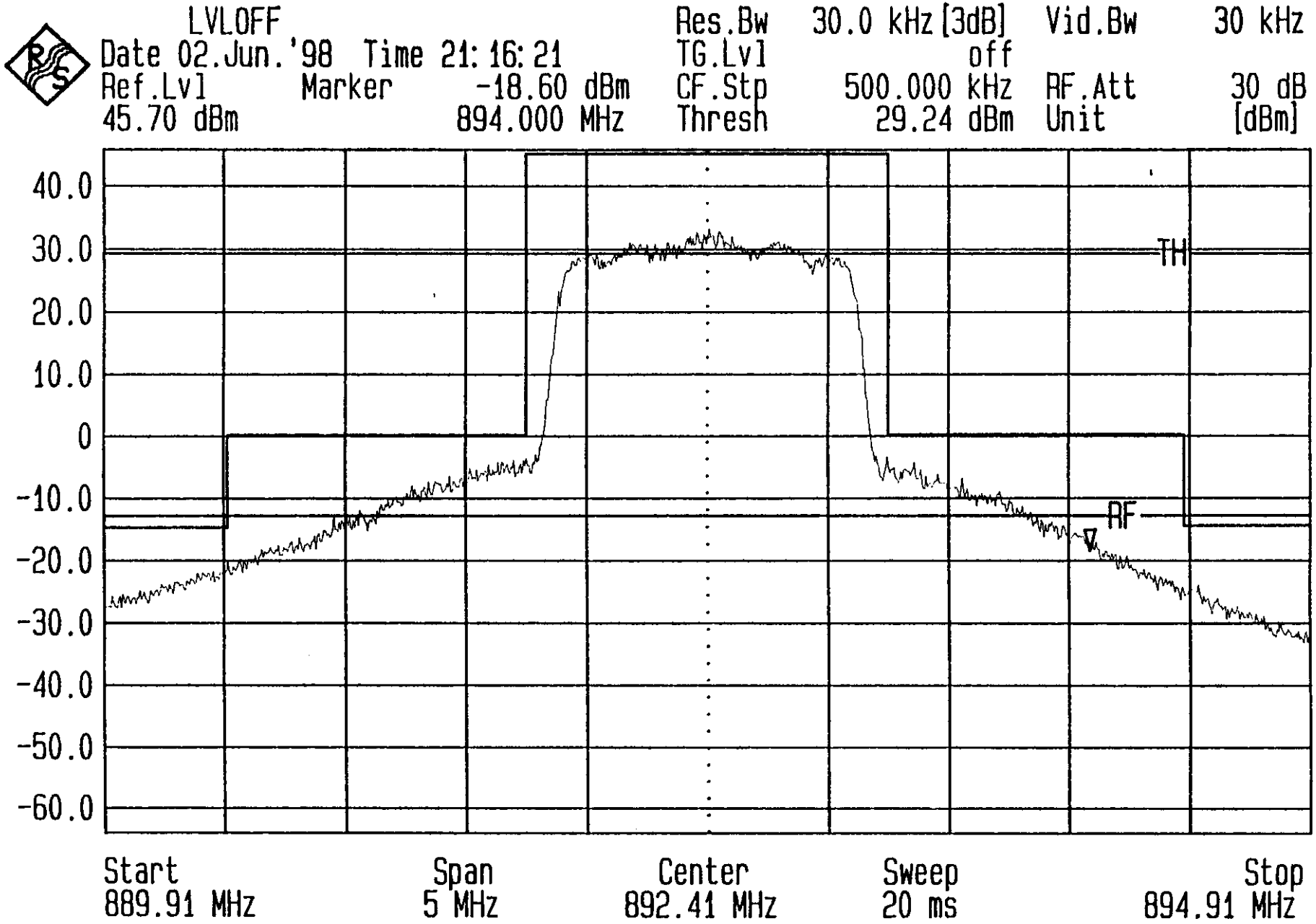
AS5CMP-25 FCC Occupied Bandwidth A'Band Channel# 691 35W @ J4/ 48W @ CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz


LVLOFF
Res.Bw 30.0 kHz [3dB] Vid.Bw 30 kHz
Date 29.May.'98 Time 10:18:13
TG.Lvl off
Ref.Lvl Marker -14.94 dBm CF.Stp 500.000 kHz RF.Att 10 dB
0 dBm 890.797 MHz Thresh -16.20 dBm Unit [dBm]
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
TH
Start 888.32 MHz
Span 5 MHz
Center 890.82 MHz
Sweep 20 ms
Stop 893.32 MHz
AS5CMP-25 FCC Occupied Bandwidth; A"Band, Channel# 694, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

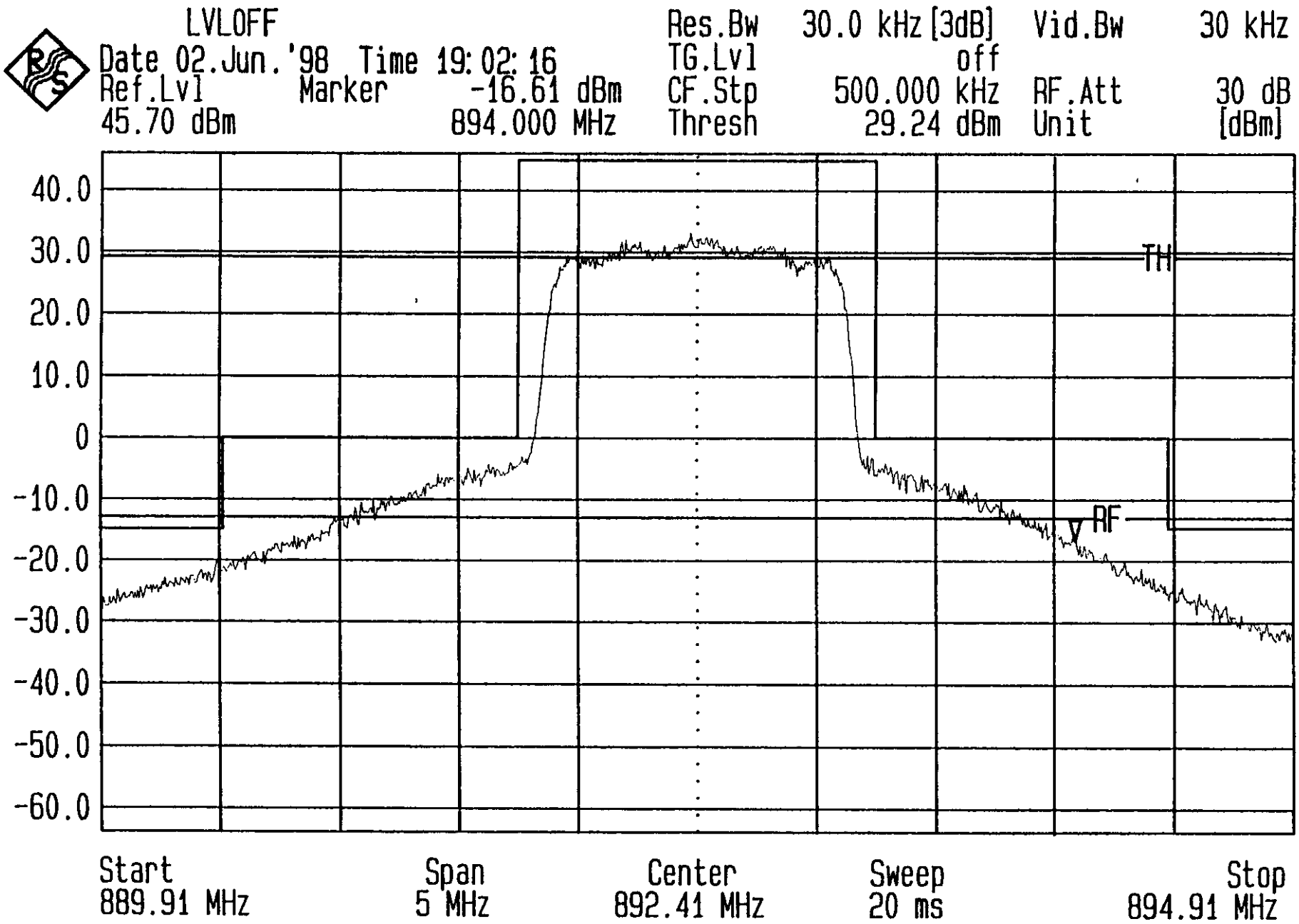


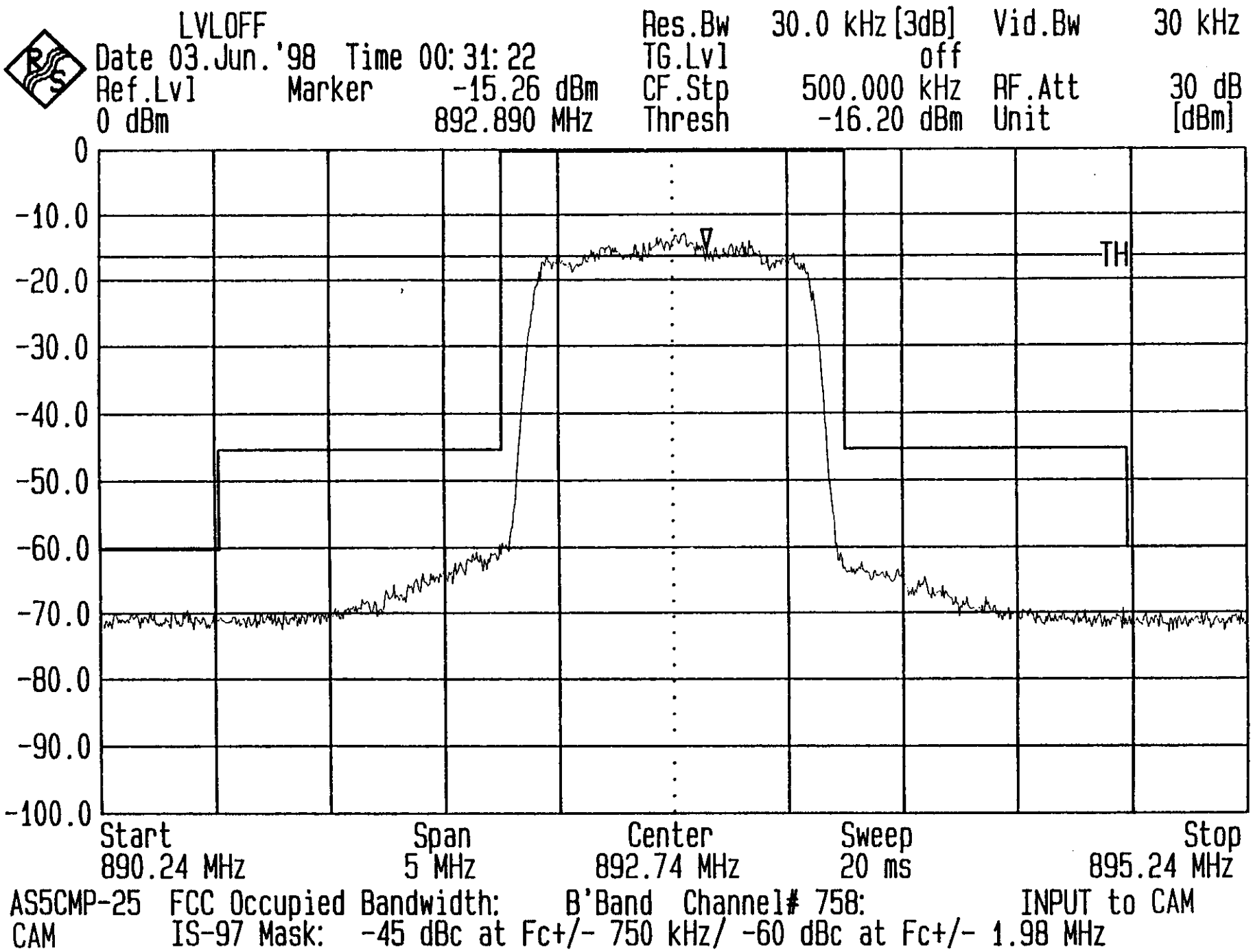
AS5CMP-25 FCC Occupied Bandwidth; A' Band, Channel 694 48 W at CAM/ 35 W at J4
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc+/- 1.98 MHz

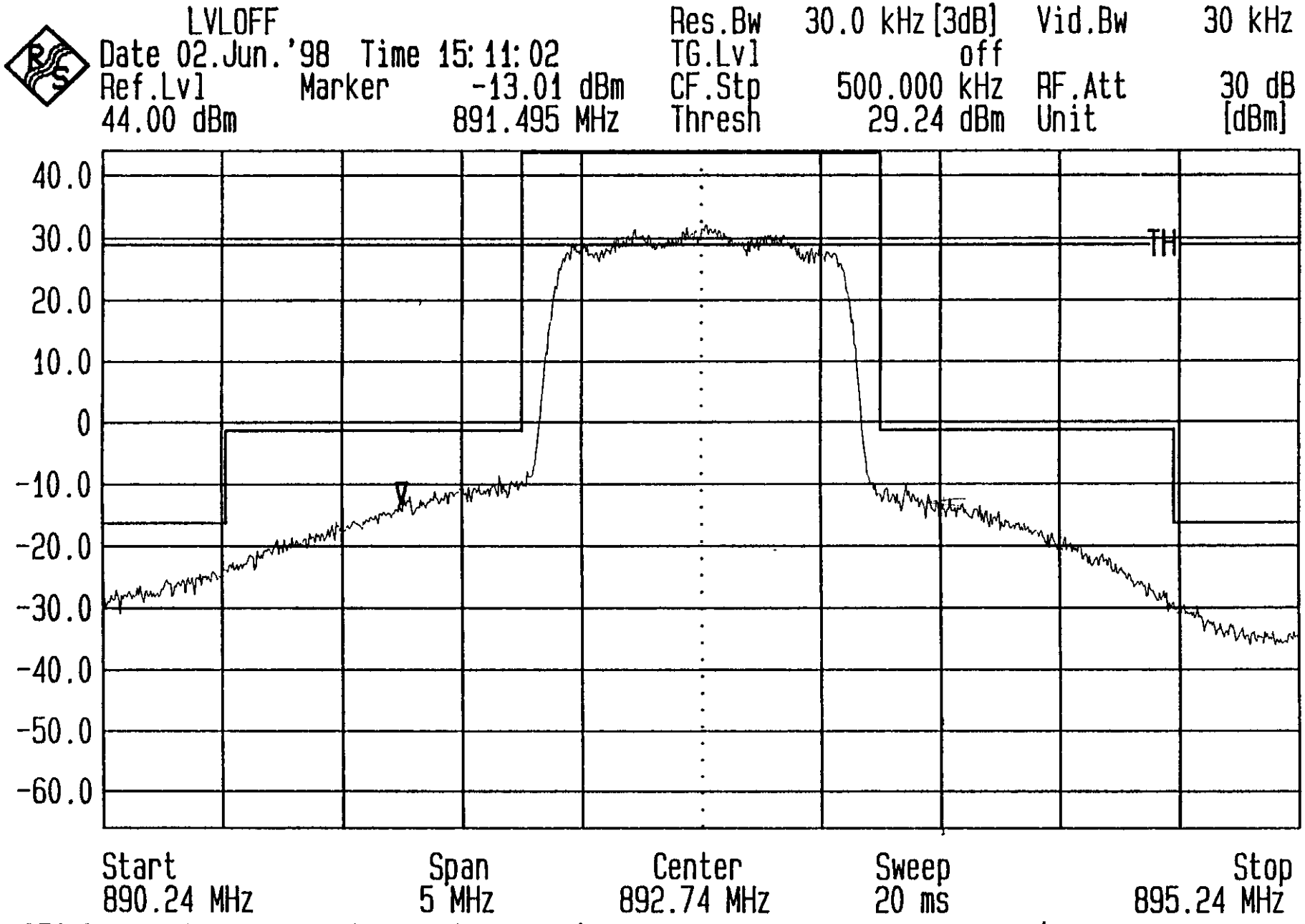

LVLOFF
Res.Bw 30.0 kHz [3dB] Vid.Bw 30 kHz
Date 02.Jun.'98 Time 22:35:10
TG.Lvl off
Ref.Lvl Marker -17.06 dBm CF.Stp 500.000 kHz RF.Att 10 dB
0 dBm 892.538 MHz Thresh -16.20 dBm Unit [dBm]
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
TH
Start 889.9 MHz
Span 5 MHz
Center 892.4 MHz
Sweep 20 ms
Stop 894.9 MHz
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 747: INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



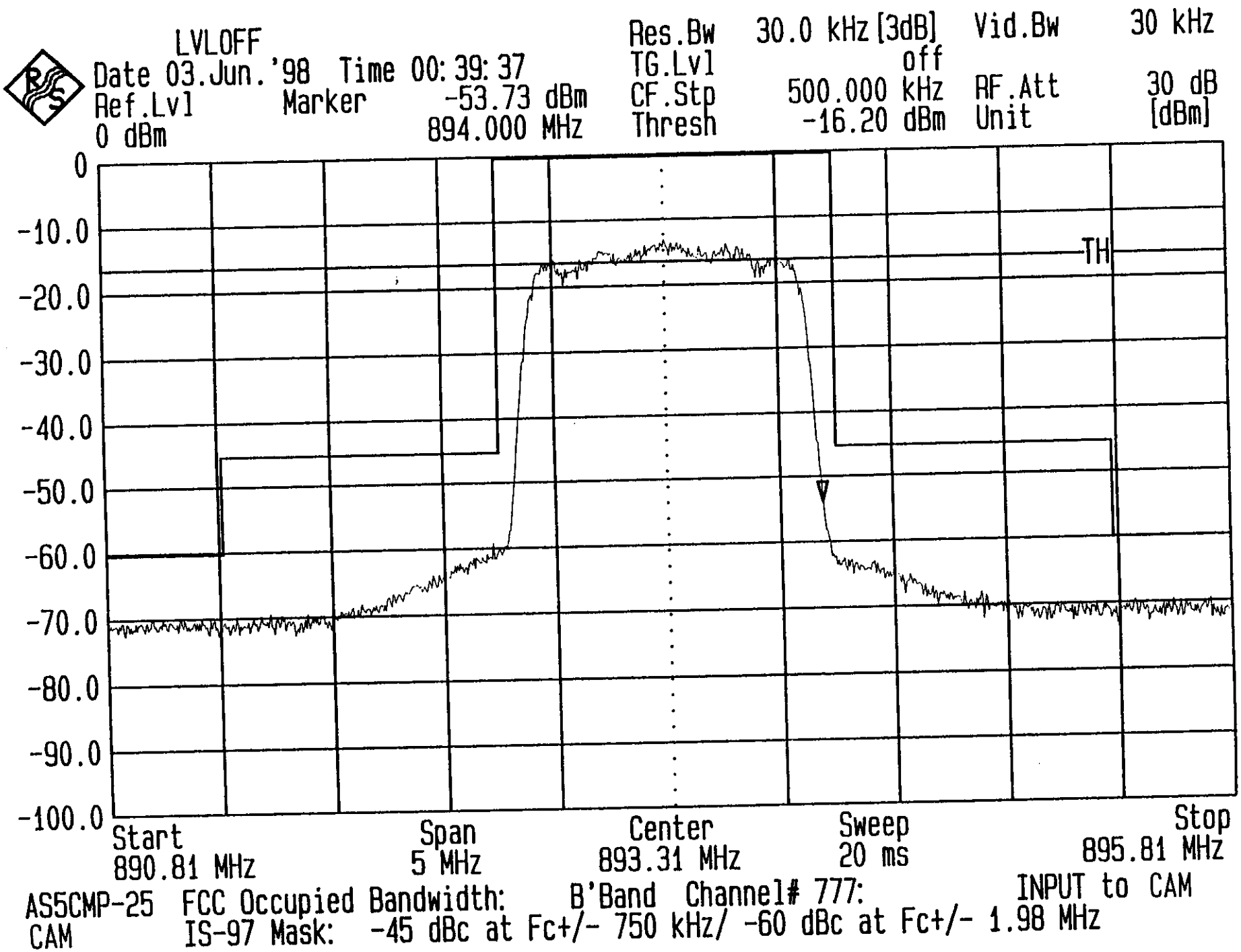
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 747: 35 W @ J4/ 49.7W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz

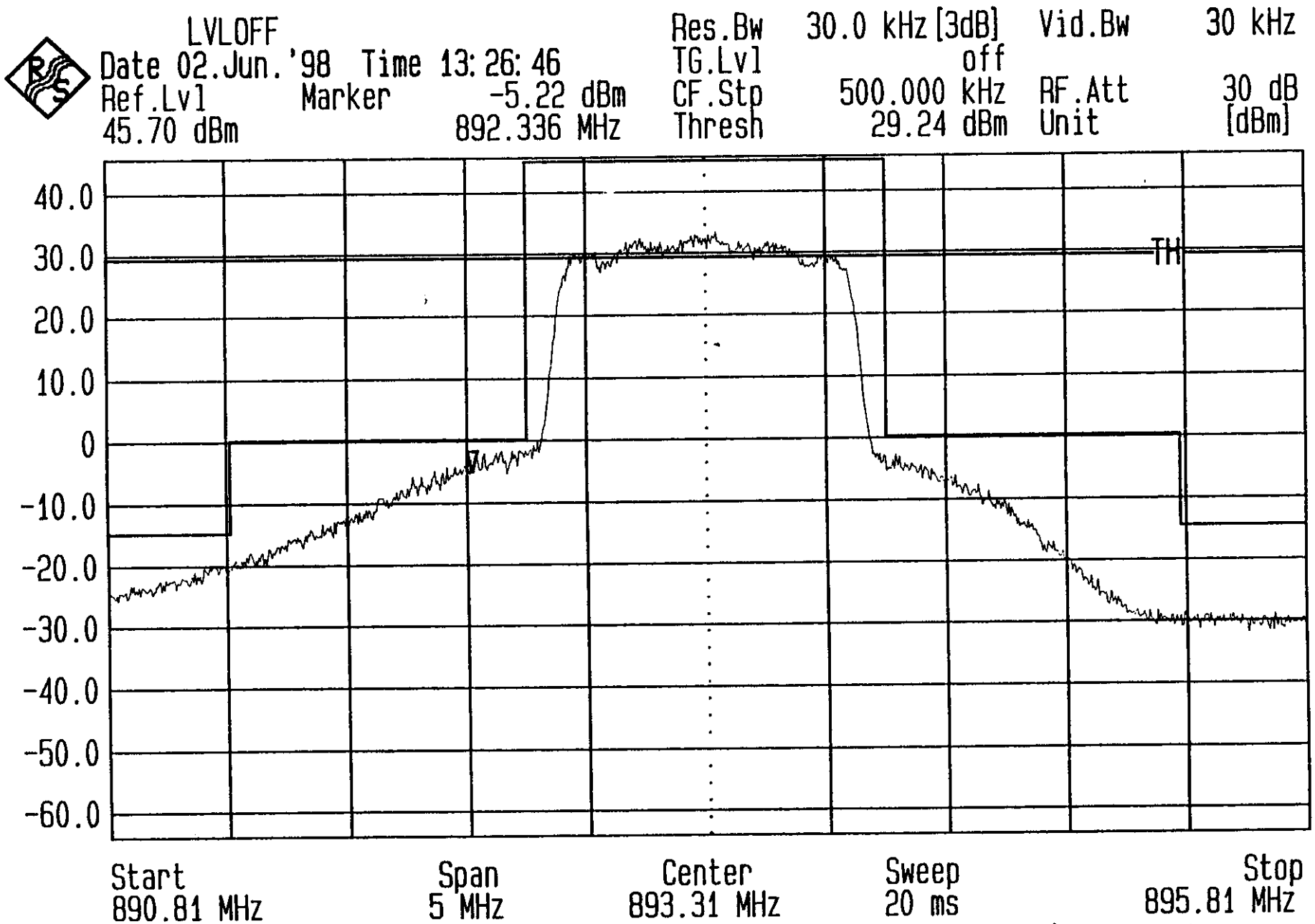

LVLOFF
Res.Bw 30.0 kHz [3dB]
Vid.Bw 30 kHz
Date 02.Jun.'98 Time 19:02:16
TG.Lvl off
Ref.Lvl Marker -16.61 dBm
CF.Stp 500.000 kHz
RF.Att 30 dB
45.70 dBm 894.000 MHz
Thresh 29.24 dBm
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
TH
RF
Start 889.91 MHz
Span 5 MHz
Center 892.41 MHz
Sweep 20 ms
Stop 894.91 MHz
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 747: 35 W @ J4/ 48 W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz


LVLOFF
Res.Bw 30.0 kHz [3dB]
Vid.Bw 30 kHz
Date 03.Jun.'98 Time 00:31:22
TG.Lvl off
Ref.Lvl Marker -15.26 dBm
CF.Stp 500.000 kHz
RF.Att 30 dB
0 dBm 892.890 MHz
Thresh -16.20 dBm
Unit [dBm]
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
TH
Start 890.24 MHz
Span 5 MHz
Center 892.74 MHz
Sweep 20 ms
Stop 895.24 MHz
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 758: INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 758: 25 W @ J4/ 48 W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz


LVLOFF
Date 03.Jun.'98 Time 00:39:37
Ref.Lvl
0 dBm
Marker
-53.73 dBm
894.000 MHz
Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 500.000 kHz
Thresh -16.20 dBm
Vid.Bw 30 kHz
RF.Att 30 dB
Unit [dBm]
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
TH
Start
890.81 MHz
Span
5 MHz
Center
893.31 MHz
Sweep
20 ms
Stop
895.81 MHz
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 777: INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 777: 35 W @ J4/ 48 W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz

Exhibit 15:

Section 2.991

Spurious Emissions at Antenna Terminals

Spurious Emissions at the antenna terminals were investigated over the frequency range of 10 MHz to the 10th harmonic of the carrier frequency. The test setup was as described in figure 15A. Measurements were made using a Rohde & Schwarz ESMI EMI Test Receiver and an HP Model 7470A Plotter. The RF output from the transmitter was reduced (to an amplitude usable by the spectrum analyzer) by using a calibrated attenuator. The RF power level was continuously monitored via the test setup in Figure 15A. The required emission limitation specified in Section 22.907 of the Code was applied to these tests. The applied signal met the recommended characteristics per IS-95 section 10 as defined below.

Based upon the criterion given in Section 22.907 of the Code the required emission limitation is equal to -51.5 dBc or -13 dBm.

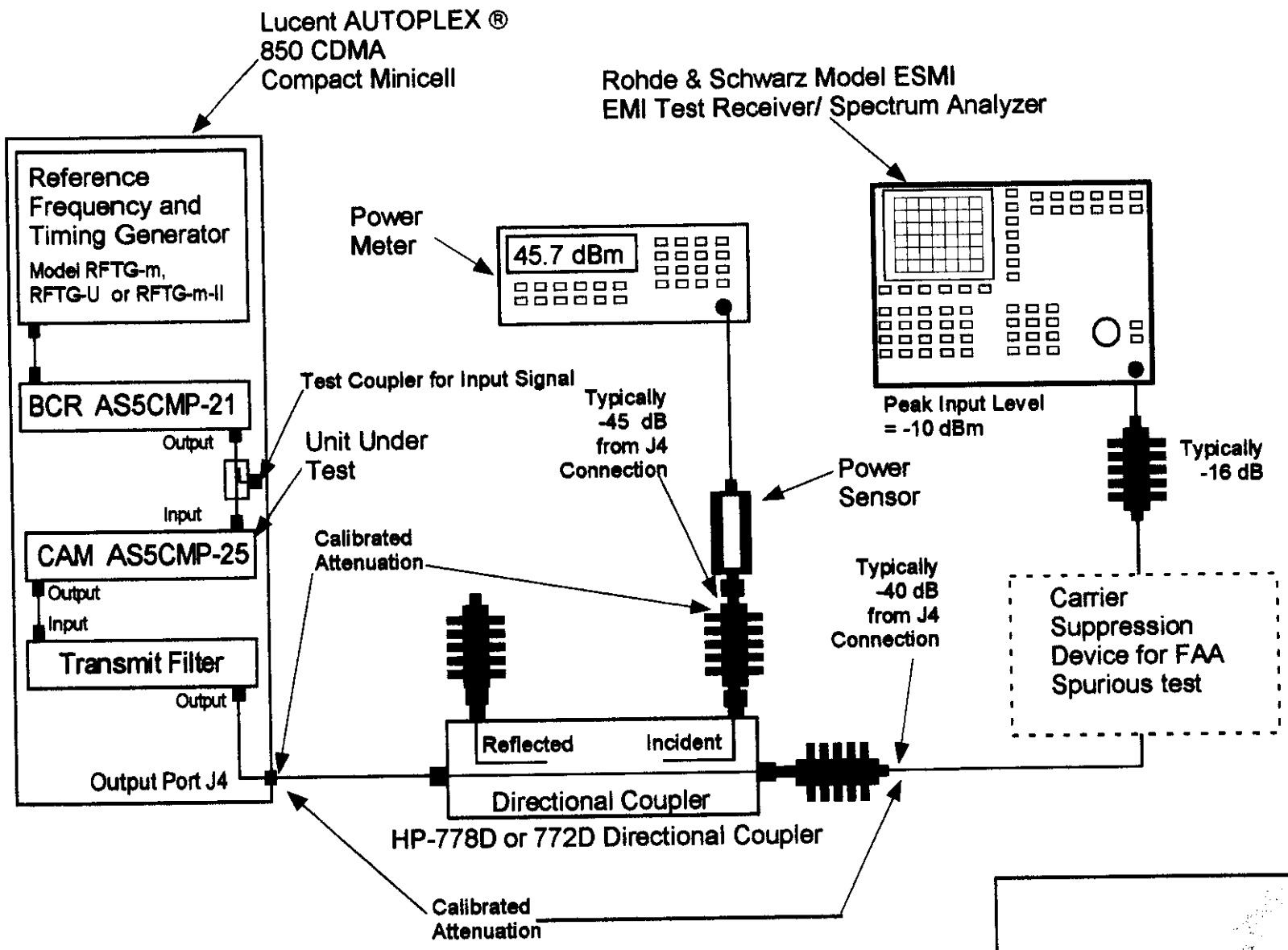
Type	Number of Channels	Fraction of Power (Linear)	Fraction of Power (dB)	Comments
Pilot	1	0.2000	-7.0	Walsh 0
Sync	1	0.0471	-13.3	Walsh 32, always 1/8 rate
Paging	1	0.1882	-7.3	Walsh 1, full rate only
Traffic	6	0.09412 each	-10.3 each	Variable Walsh Assignments, full rate only

TABLE 15.1 Base Station Test Model, Nominal

Results:

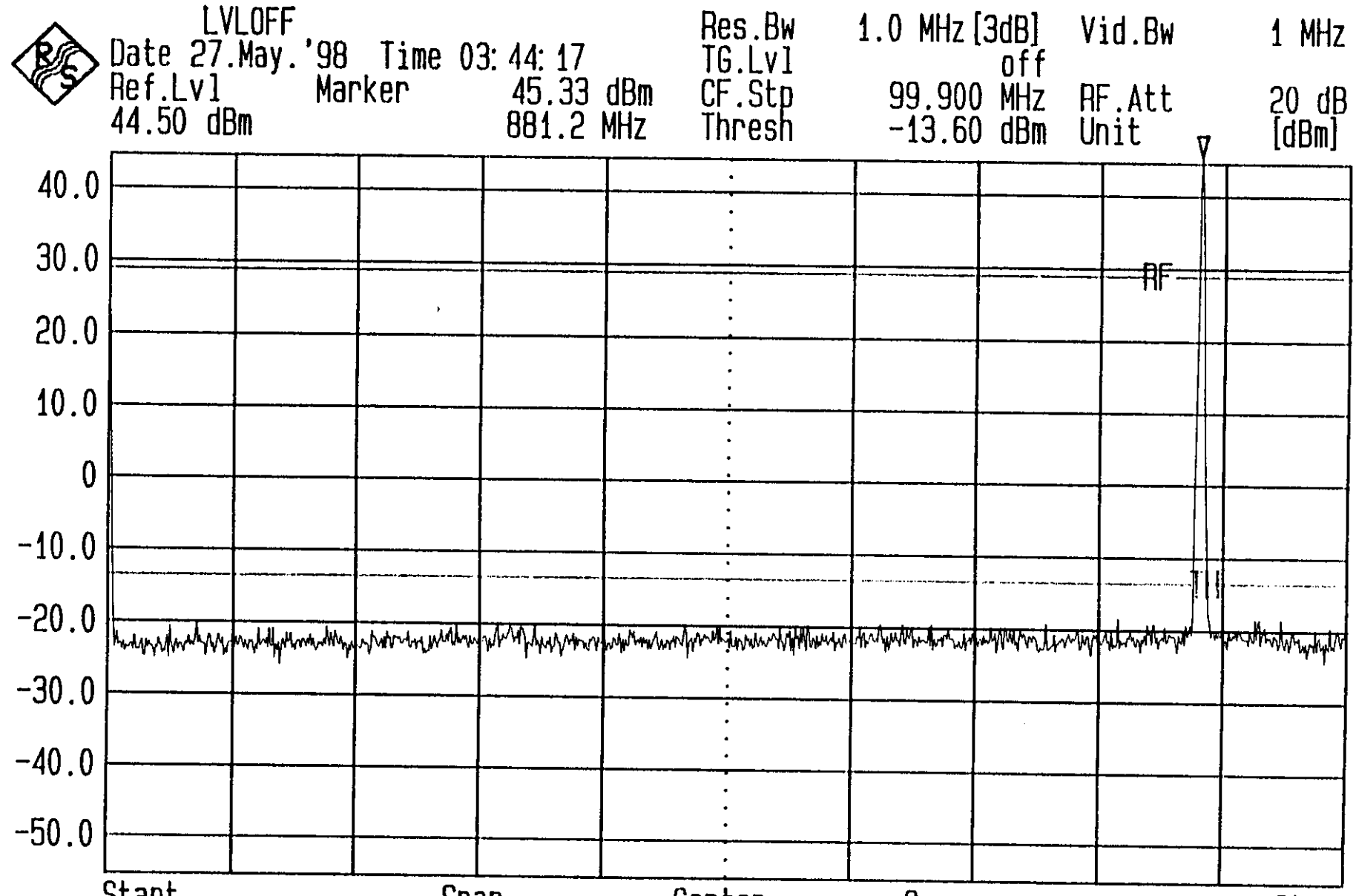
The attached spectral plots document that there are no emissions above the applicable limit.

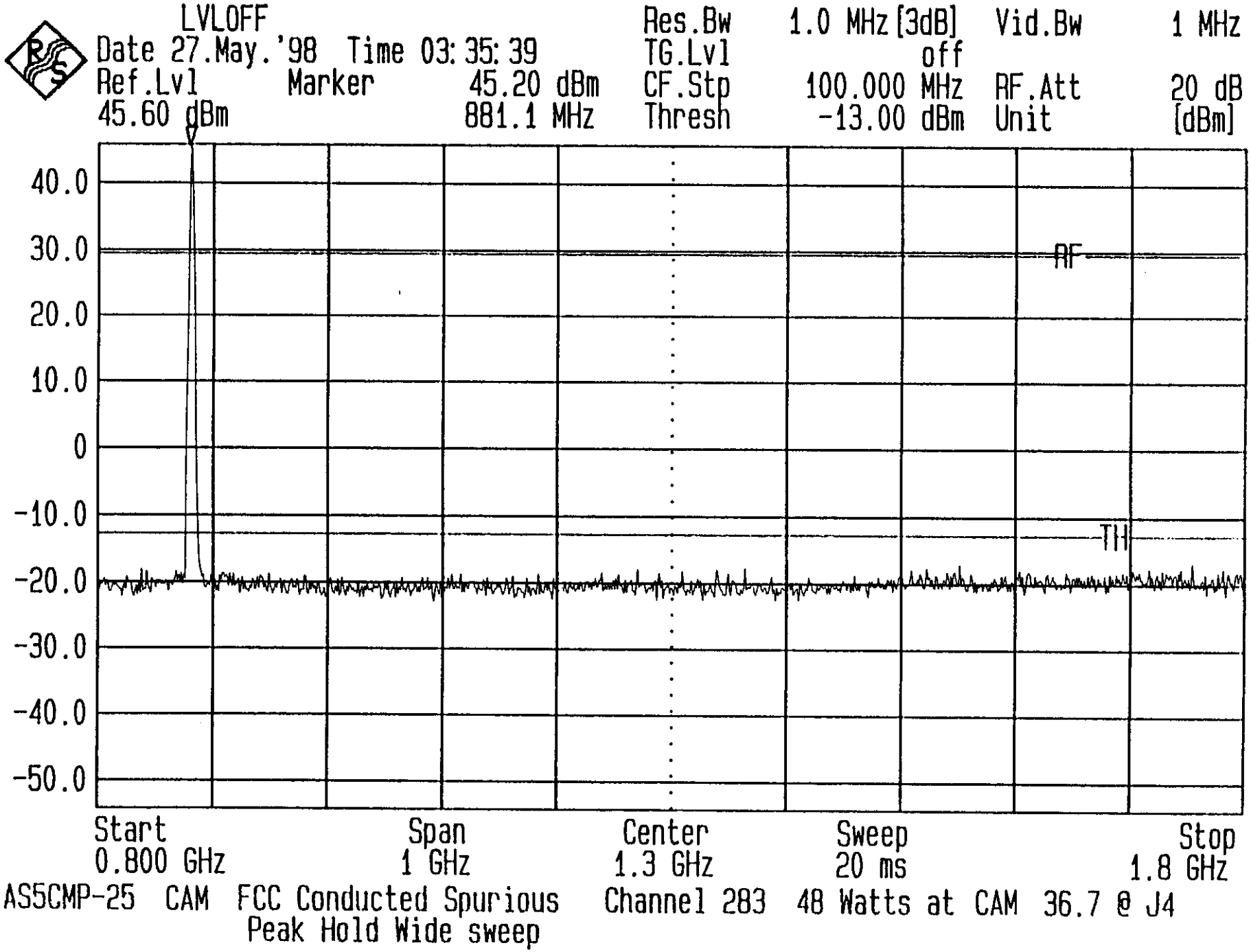
Figure 15A. Test Configuration For Conducted Spurious

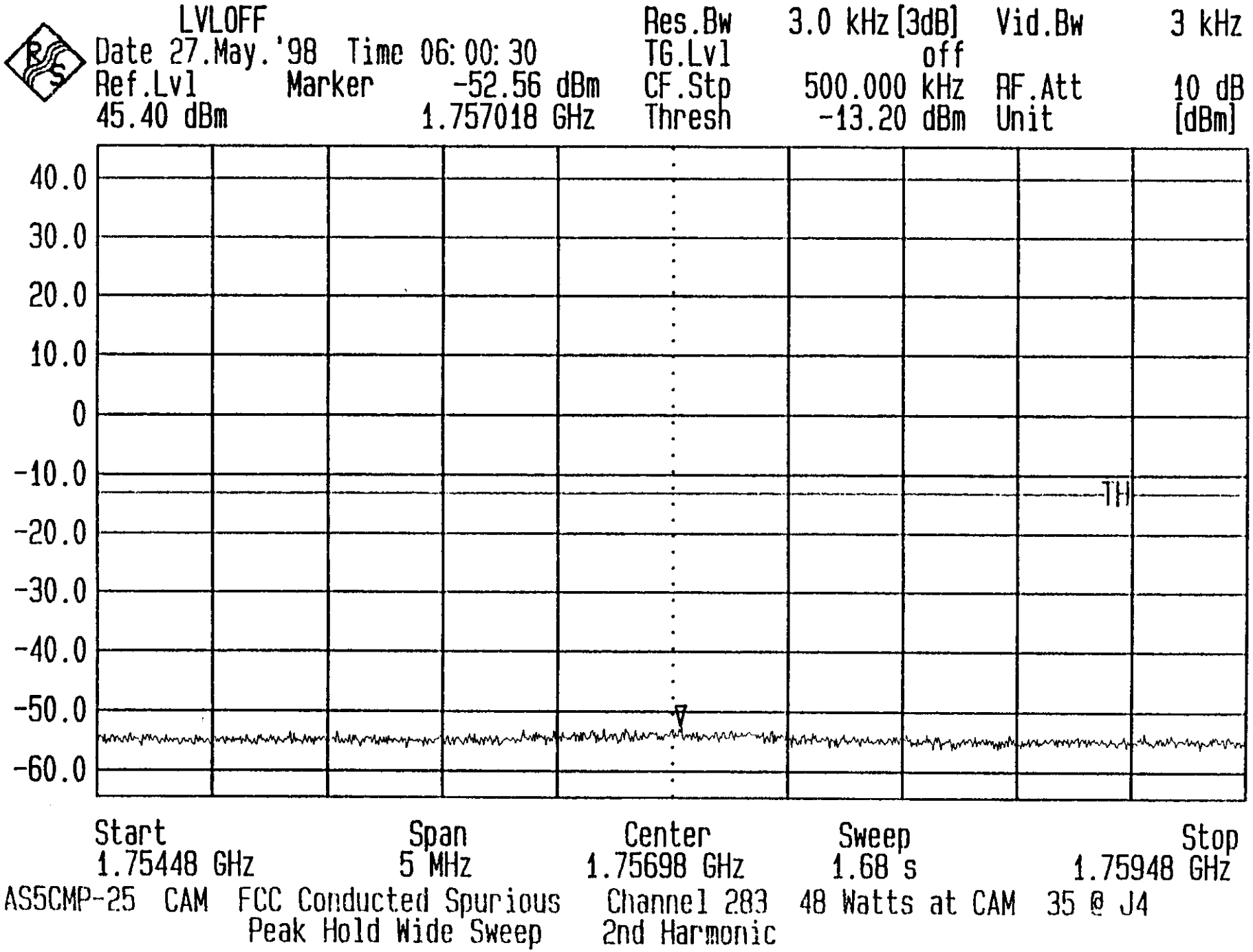


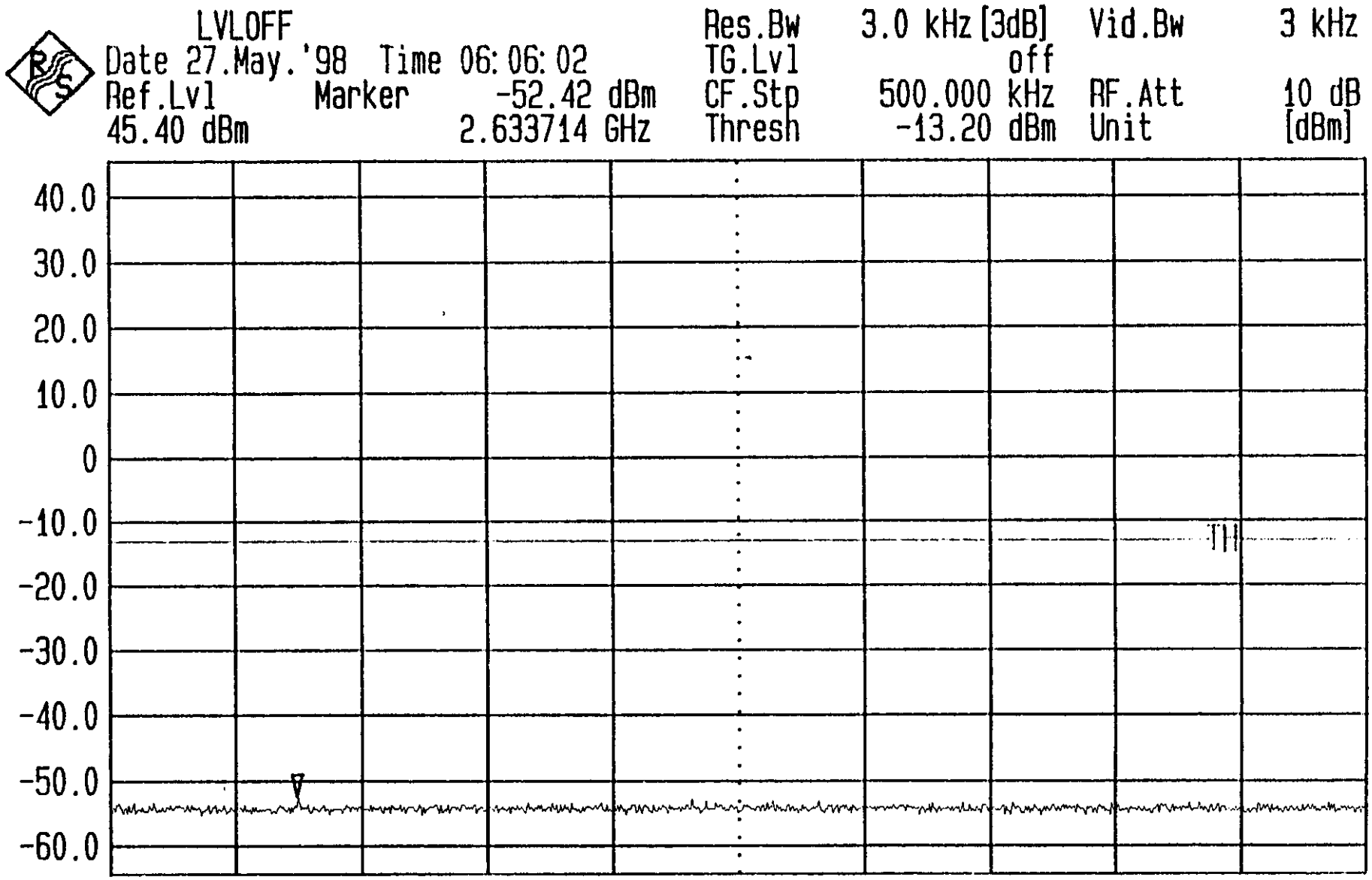
Lucent Technologies
Bell Labs Innovations

850 Compact Figure 15A
WSM 7/20/98

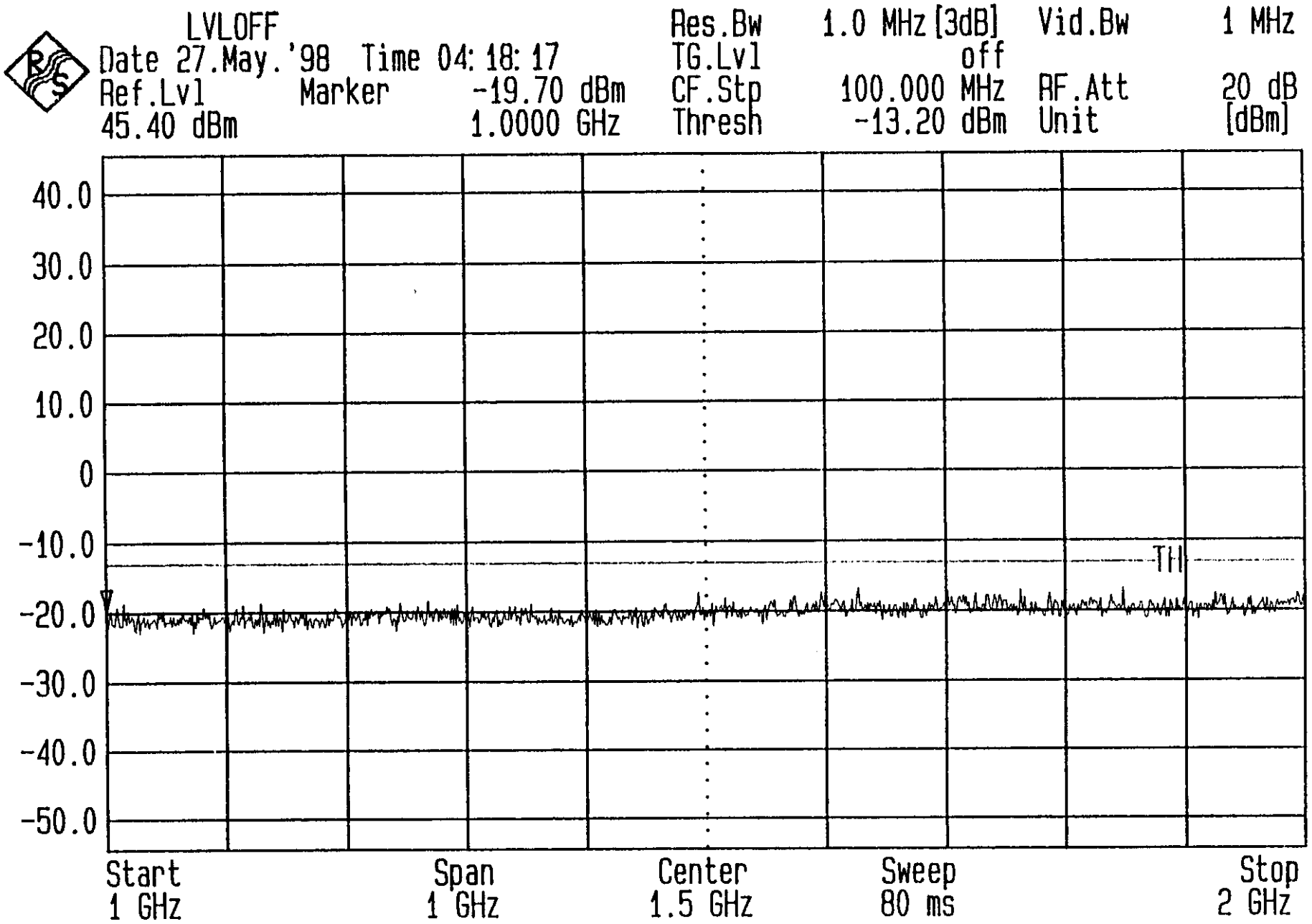

LVLOFF
Date 27.May.'98 Time 03: 44: 17
Ref.Lvl
44.50 dBm
Marker
45.33 dBm
881.2 MHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 99.900 MHz
Thresh -13.60 dBm
Vid.Bw 1 MHz
RF.Att 20 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
RF
Start 1 MHz
Span 999 MHz
Center 500.5 MHz
Sweep 60 ms
Stop 1 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 36.7 @ J4
Peak Hold Wide sweep


LVLOFF
Date 27.May.'98 Time 03:35:39
Ref.Lvl
45.60 dBm
Marker
45.20 dBm
881.1 MHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 100.000 MHz
Thresh -13.00 dBm
Vid.Bw 1 MHz
RF.Att 20 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
RF
TH
Start 0.800 GHz
Span 1 GHz
Center 1.3 GHz
Sweep 20 ms
Stop 1.8 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 36.7 @ J4
Peak Hold Wide sweep

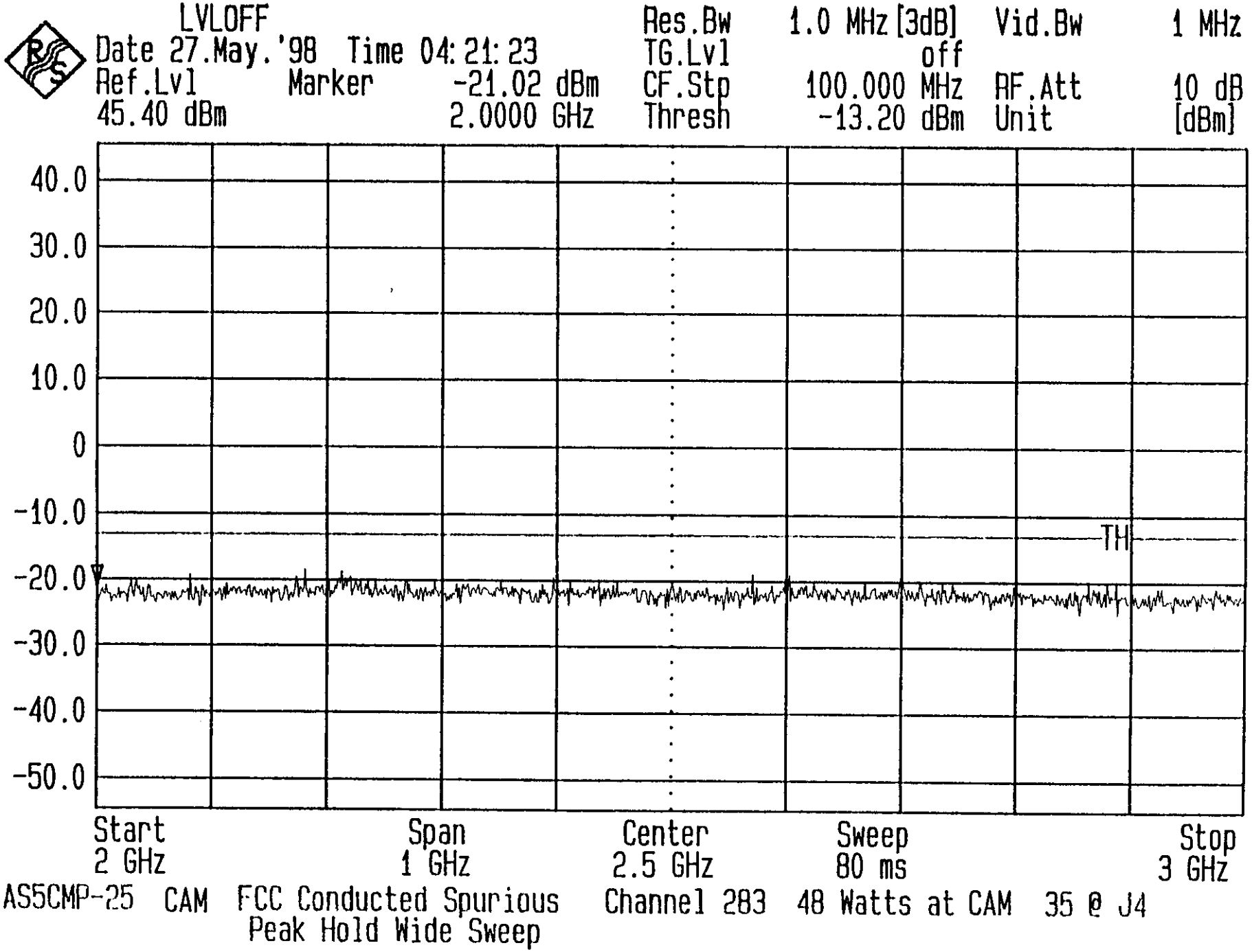

LVLOFF
Res.Bw 3.0 kHz [3dB] Vid.Bw 3 kHz
Date 27.May.'98 Time 06:00:30
TG.Lvl off
Ref.Lvl Marker -52.56 dBm CF.Stp 500.000 kHz RF.Att 10 dB
45.40 dBm 1.757018 GHz Thresh -13.20 dBm Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
TH
Start 1.75448 GHz
Span 5 MHz
Center 1.75698 GHz
Sweep 1.68 s
Stop 1.75948 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep 2nd Harmonic

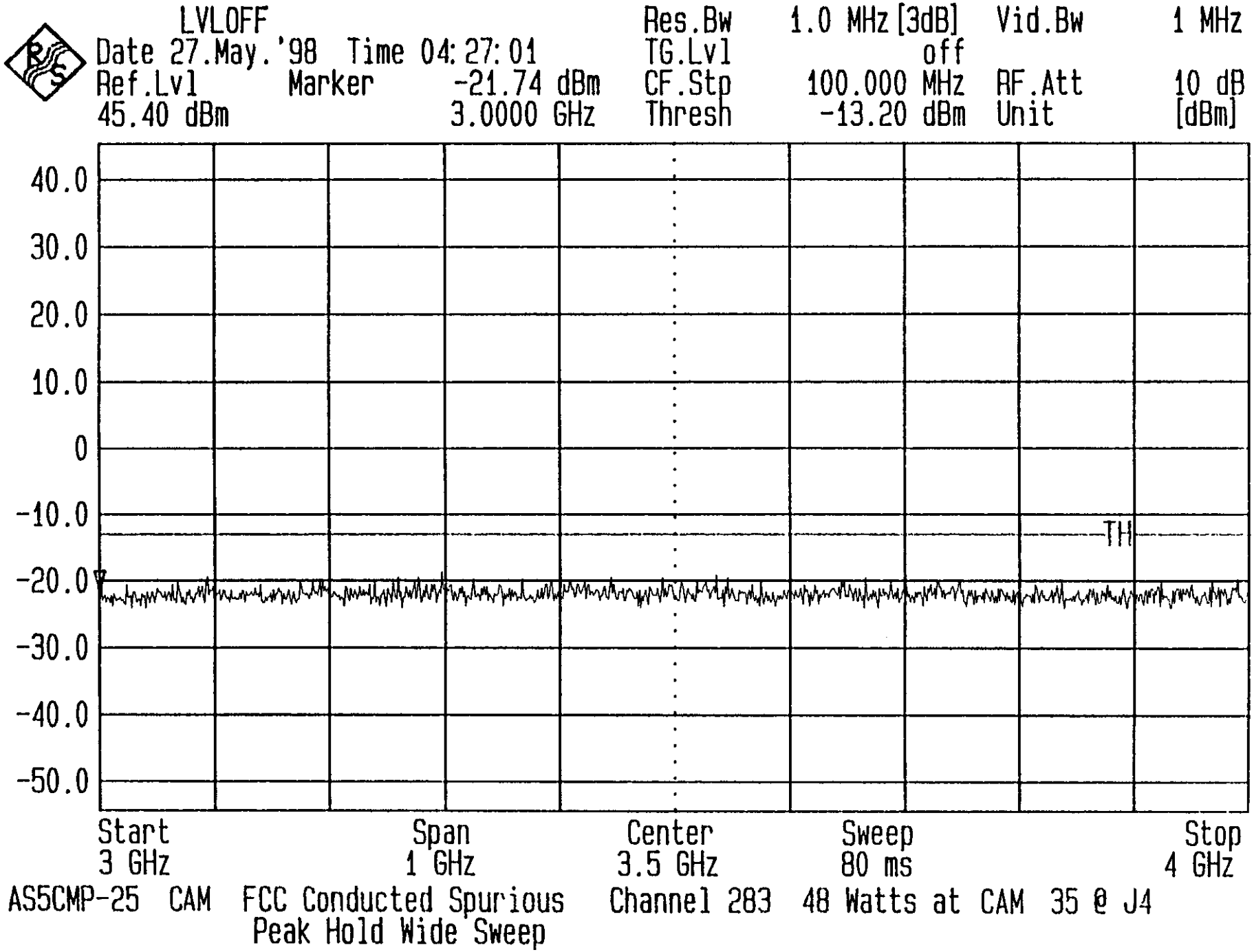


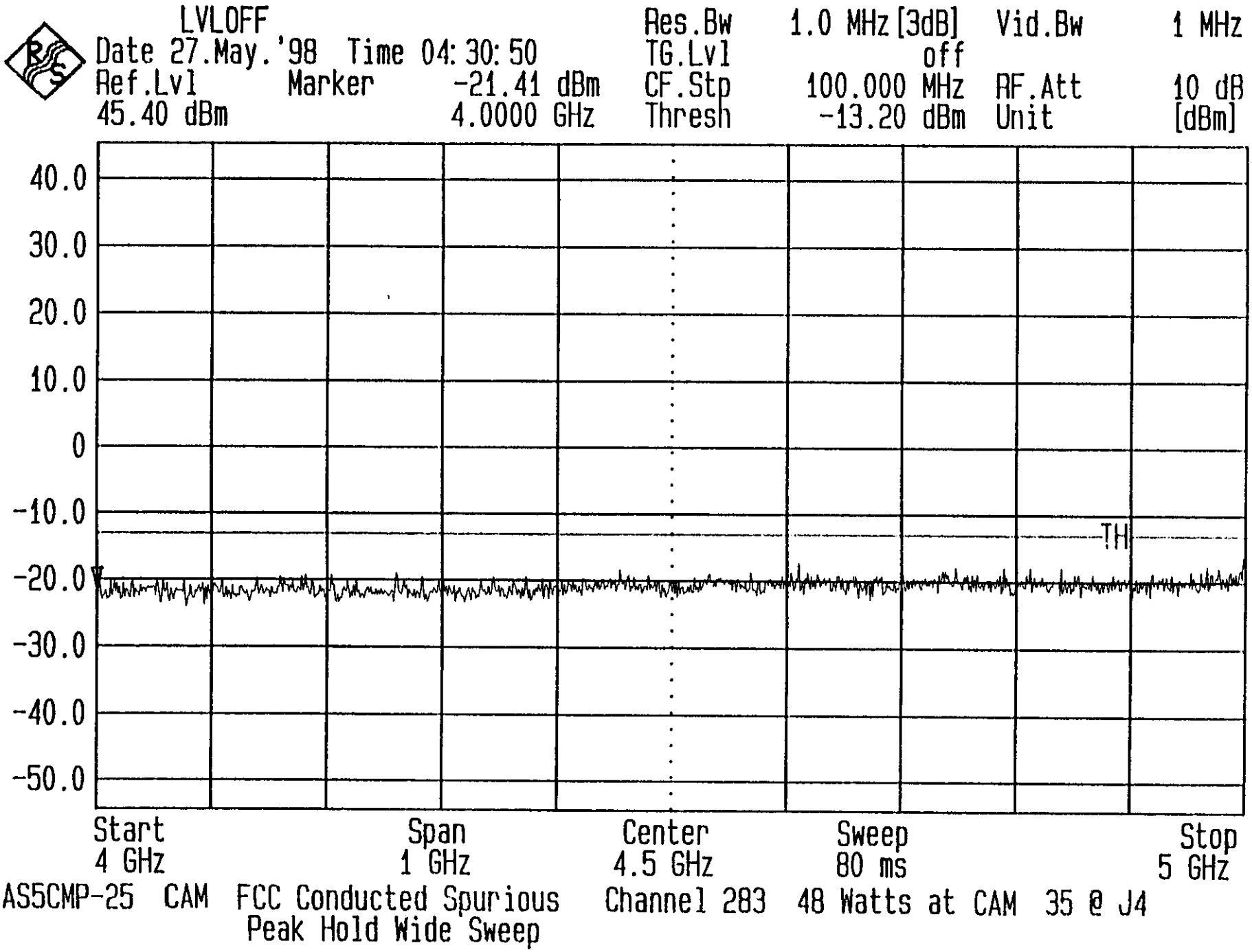
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep 3rd Harmonic

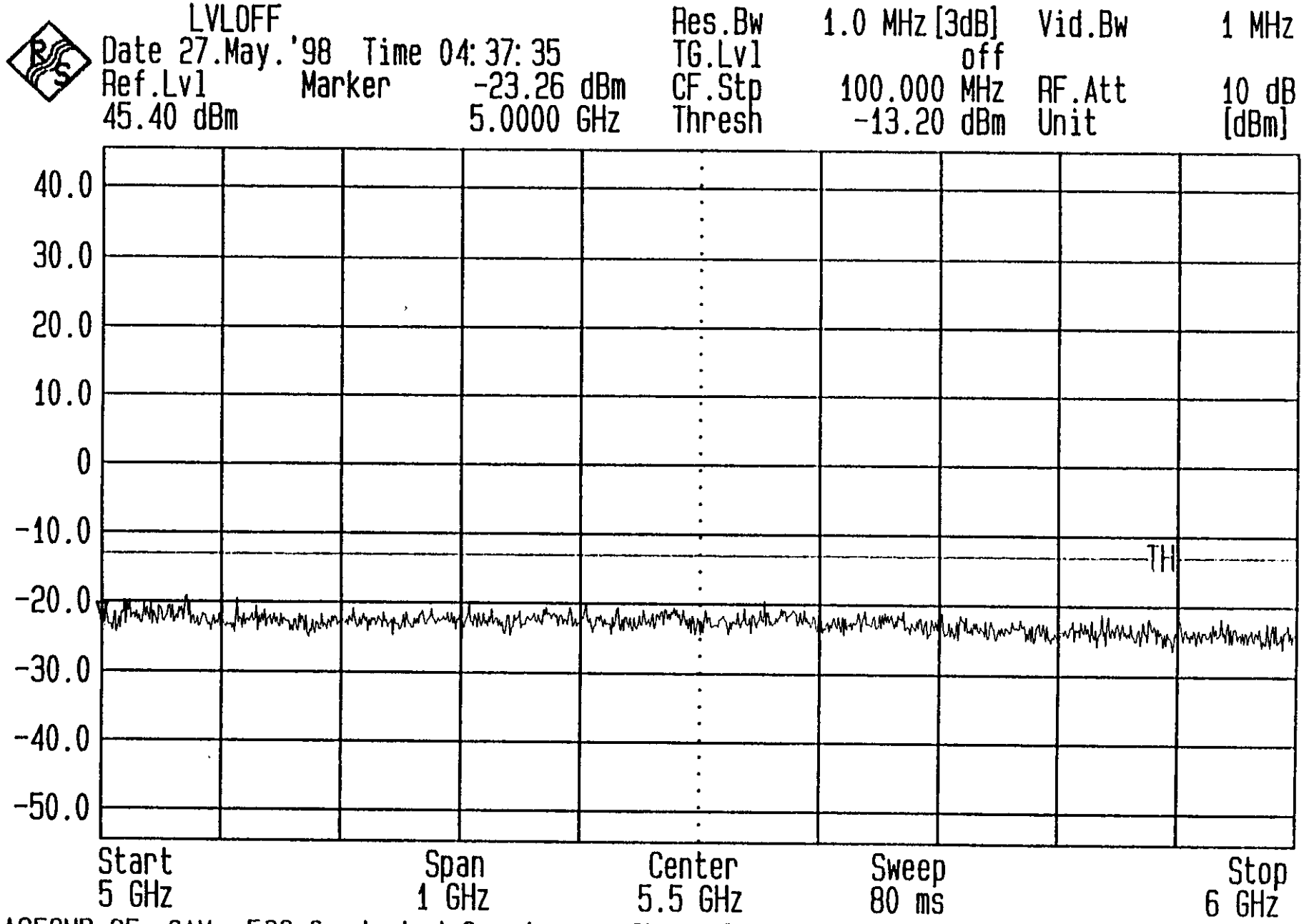


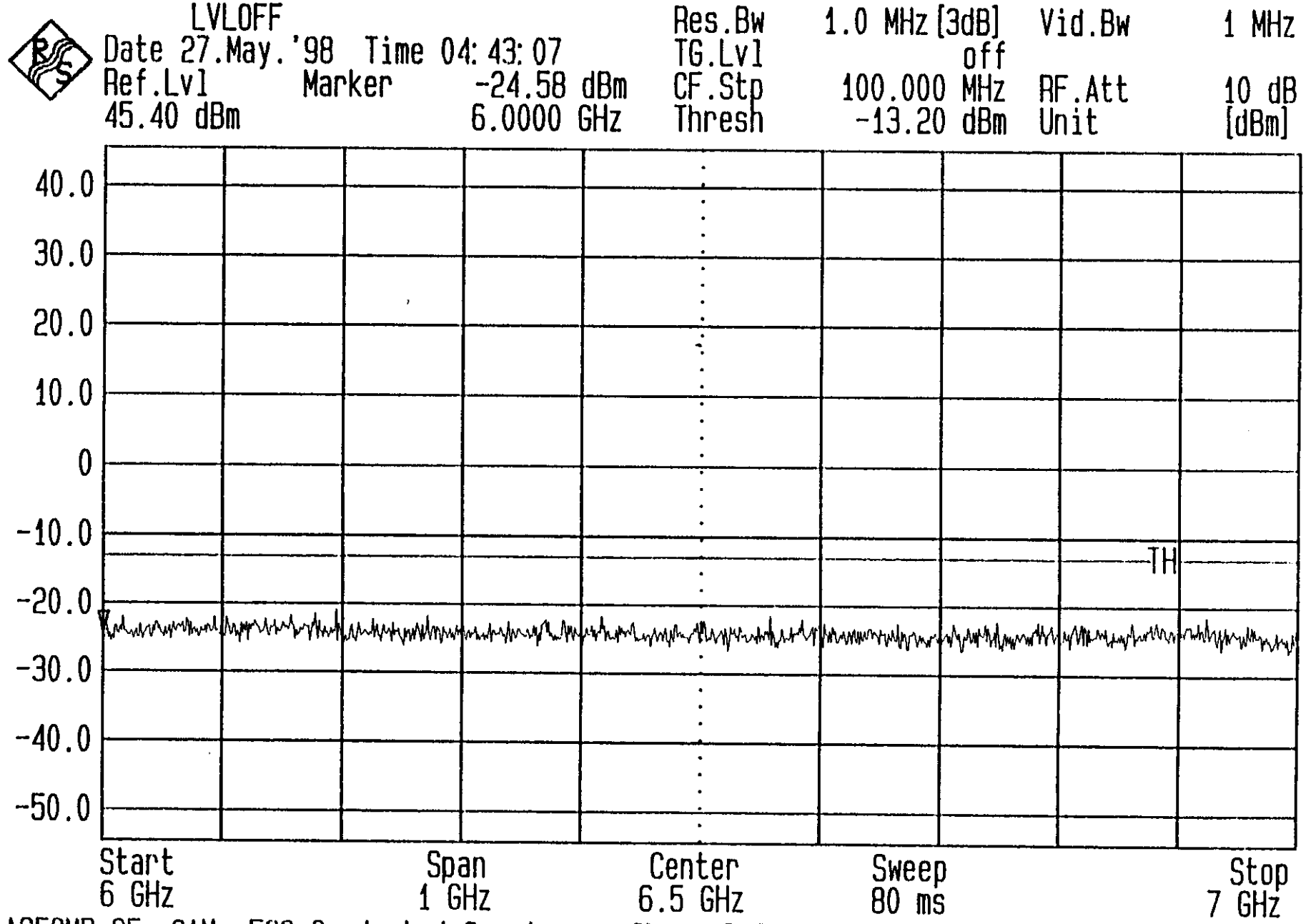
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

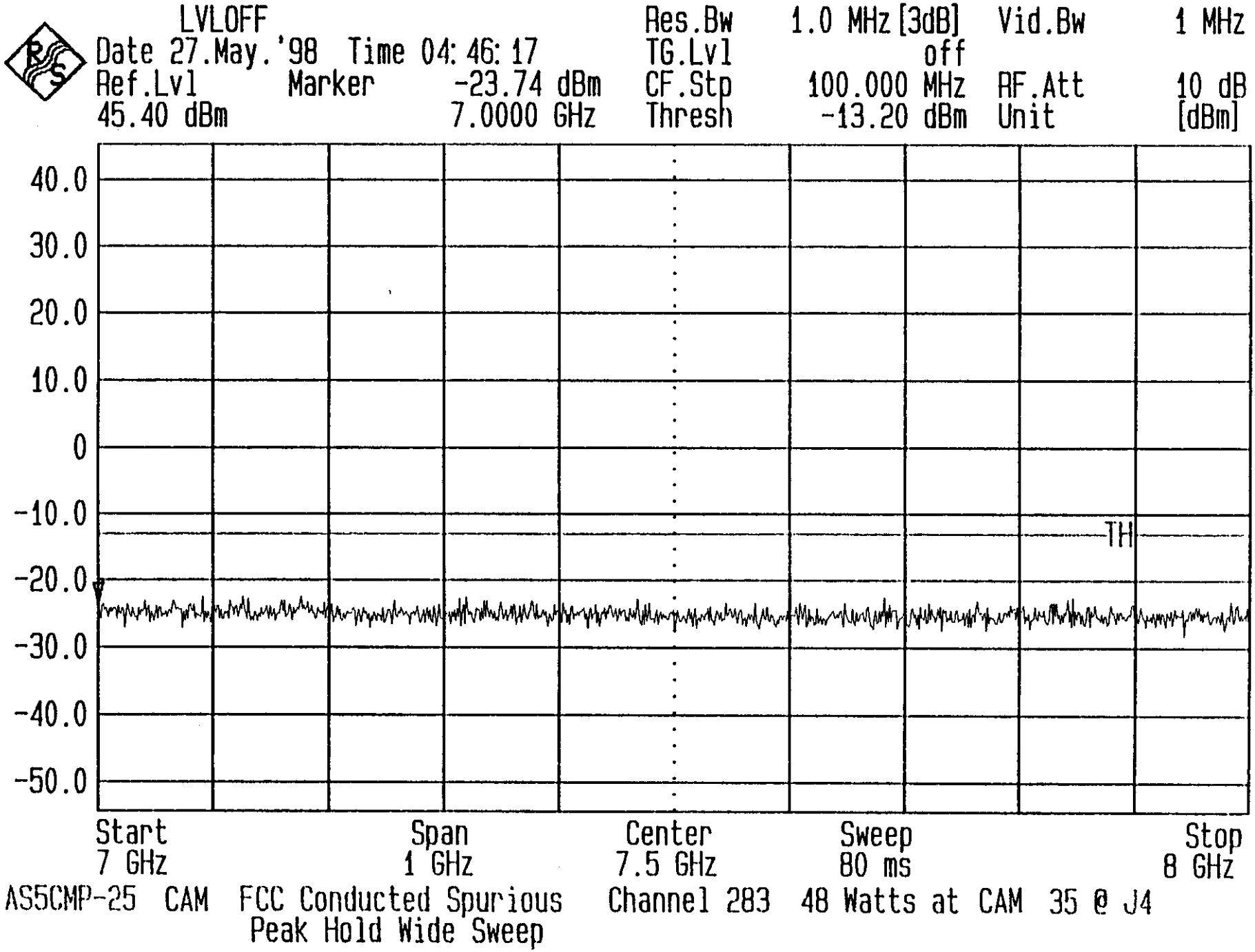

LVLOFF
Date 27.May.'98 Time 04:21:23
Ref.Lvl
45.40 dBm
Marker
-21.02 dBm
2.0000 GHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 100.000 MHz
Thresh -13.20 dBm
Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 2 GHz
Span 1 GHz
Center 2.5 GHz
Sweep 80 ms
Stop 3 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

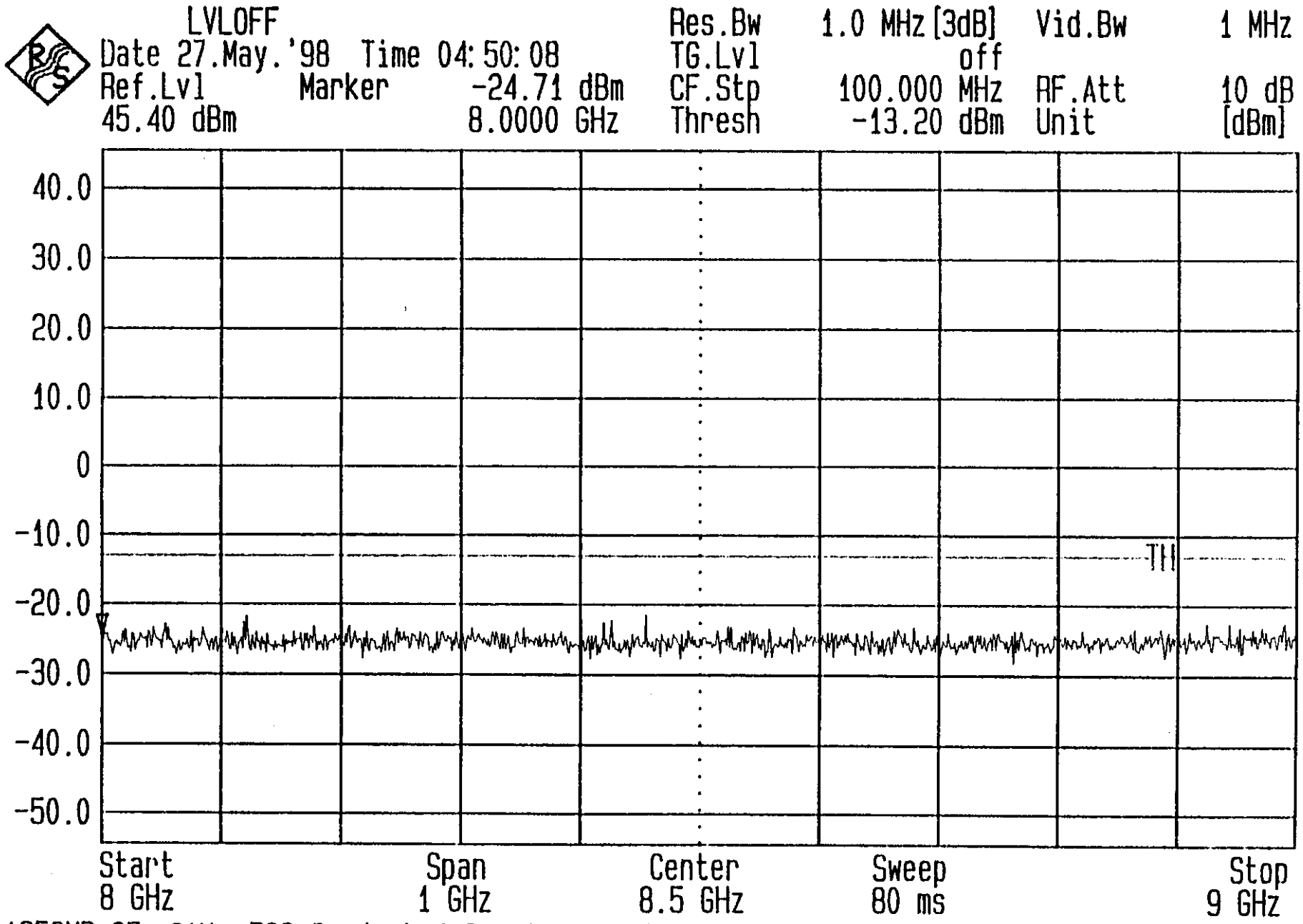

LVLOFF
Res.Bw 1.0 MHz [3dB]
Vid.Bw 1 MHz
Date 27.May.'98 Time 04:27:01
TG.Lvl off
Ref.Lvl Marker -21.74 dBm
CF.Stp 100.000 MHz
RF.Att 10 dB
45.40 dBm 3.0000 GHz
Thresh -13.20 dBm
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 3 GHz
Span 1 GHz
Center 3.5 GHz
Sweep 80 ms
Stop 4 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

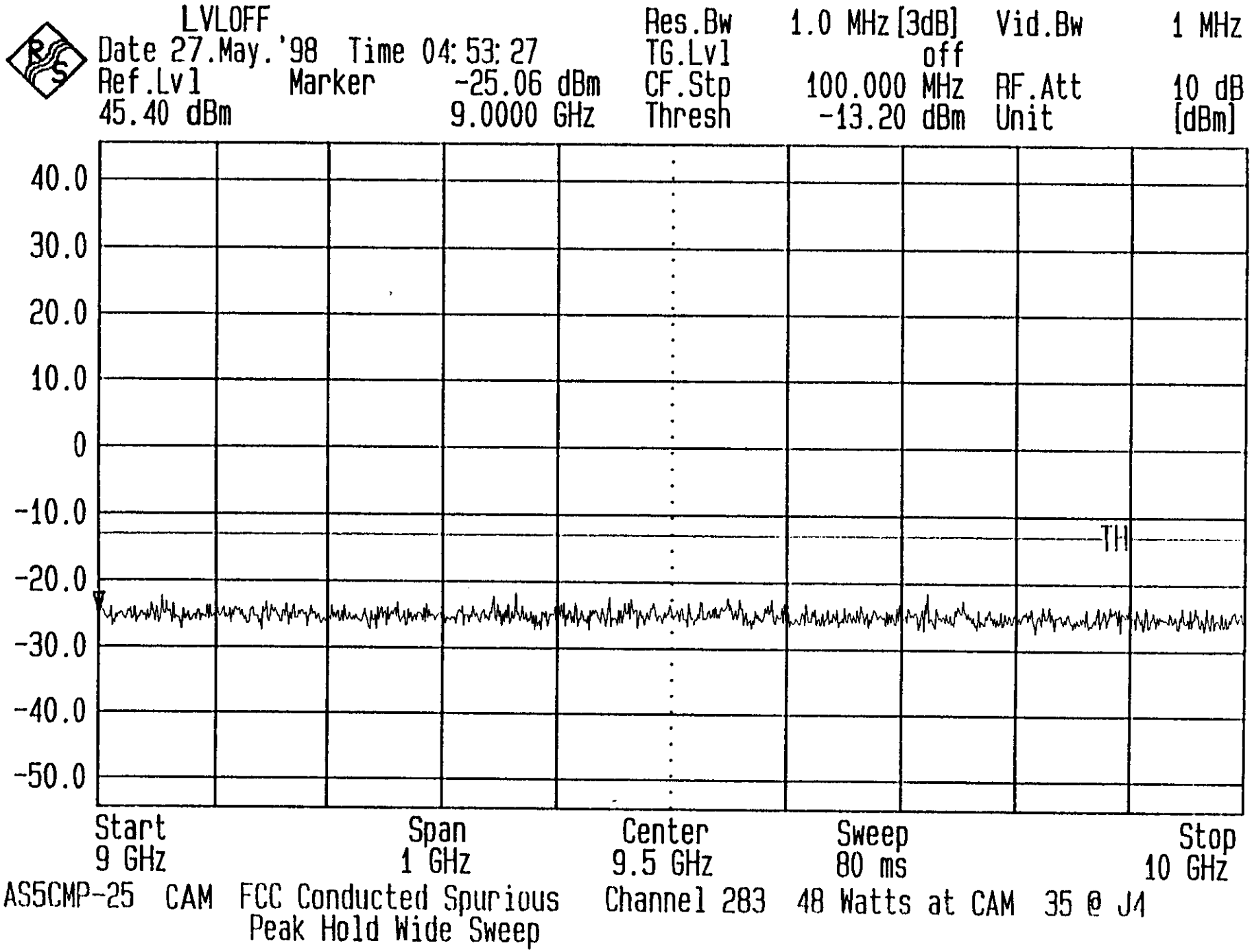

LVLOFF
Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
Date 27.May.'98 Time 04:30:50
TG.Lvl off
Ref.Lvl Marker -21.41 dBm
CF.Stp 100.000 MHz RF.Att 10 dB
45.40 dBm 4.0000 GHz
Thresh -13.20 dBm Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 4 GHz
Span 1 GHz
Center 4.5 GHz
Sweep 80 ms
Stop 5 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

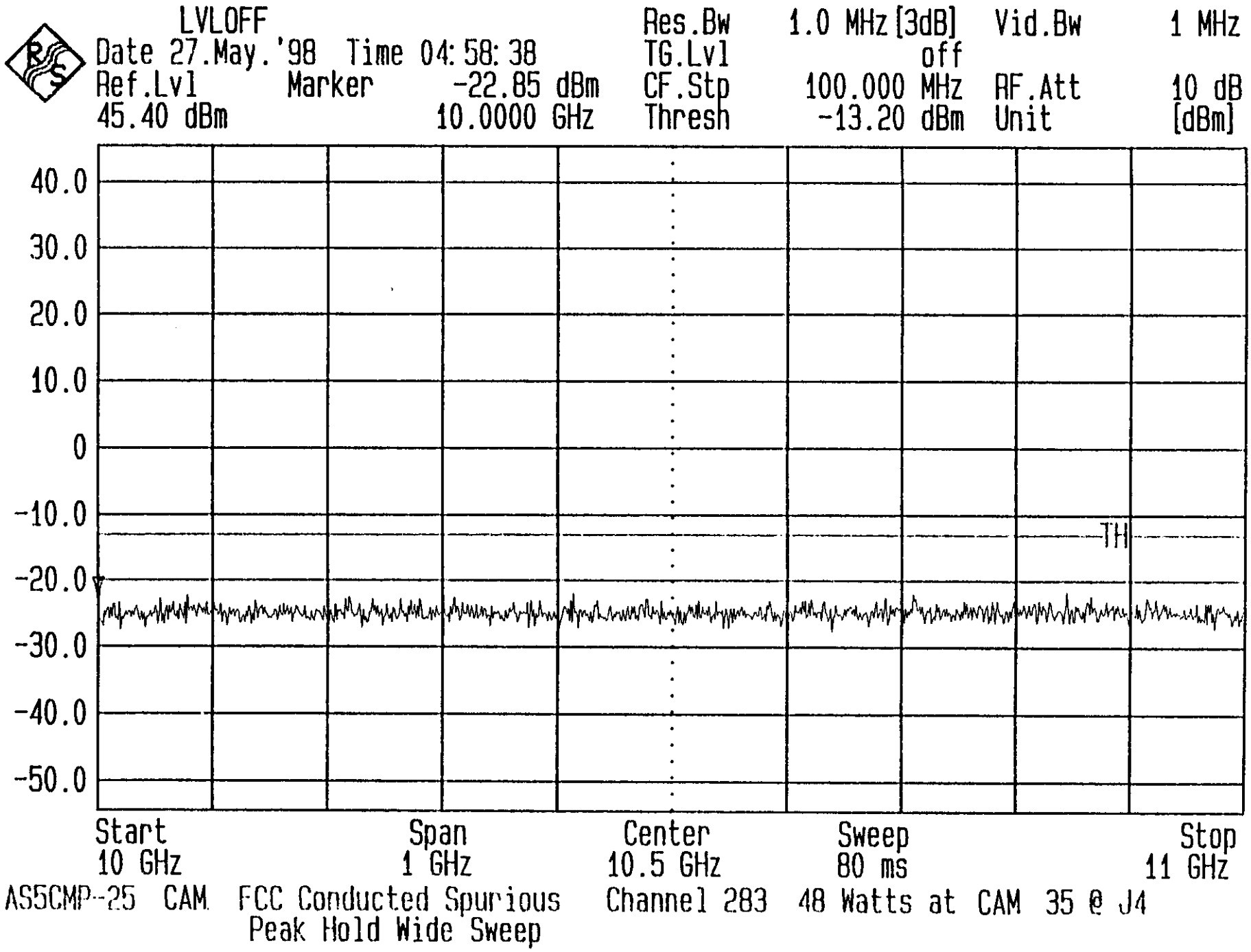

LVLOFF
Date 27.May.'98 Time 04:37:35
Ref.Lvl
45.40 dBm
Marker
-23.26 dBm
5.0000 GHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 100.000 MHz
Thresh -13.20 dBm
Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 5 GHz
Span 1 GHz
Center 5.5 GHz
Sweep 80 ms
Stop 6 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

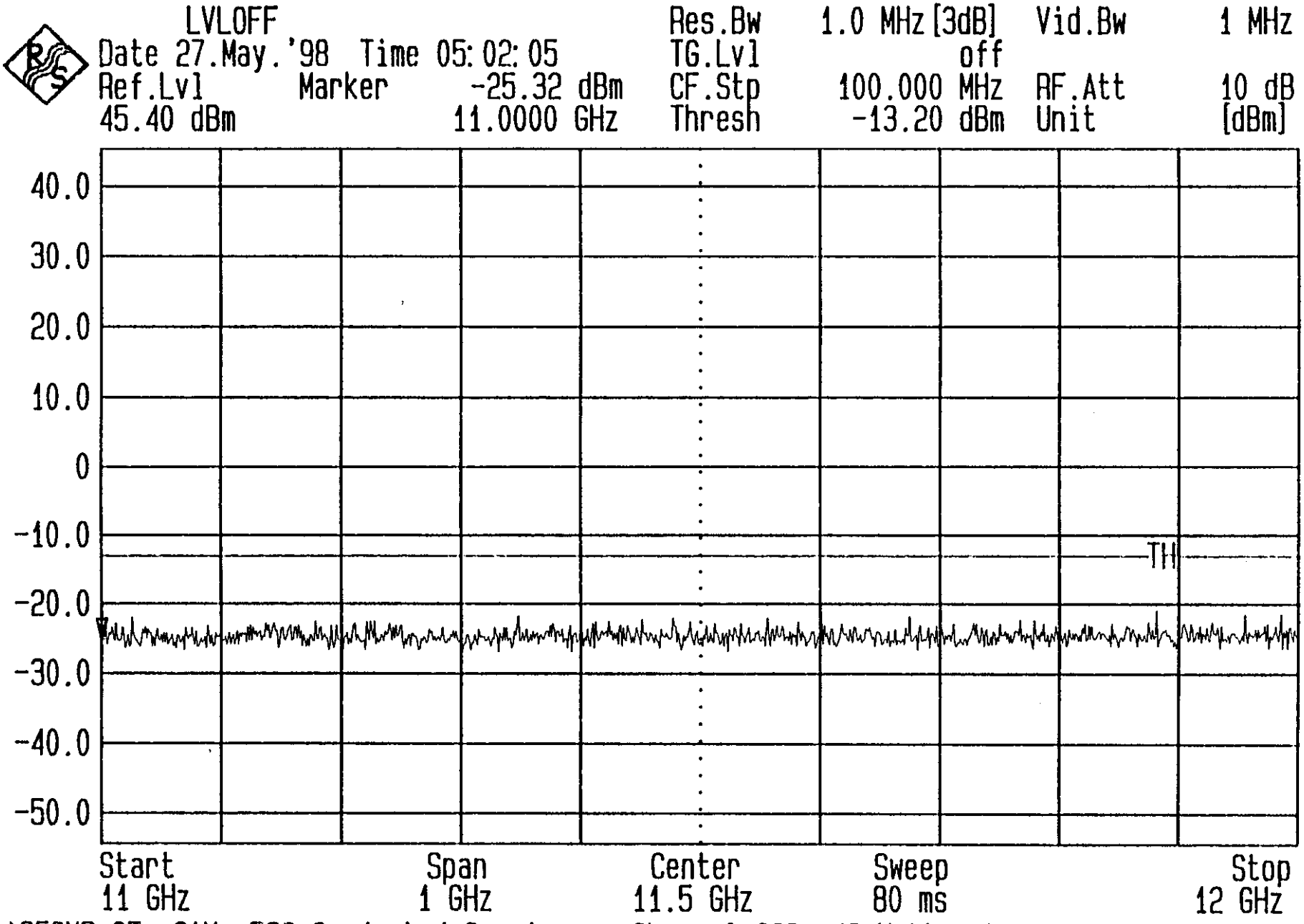

LVLOFF
Date 27.May.'98 Time 04:43:07
Ref.Lvl
45.40 dBm
Marker
-24.58 dBm
6.0000 GHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 100.000 MHz
Thresh -13.20 dBm
Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 6 GHz
Span 1 GHz
Center 6.5 GHz
Sweep 80 ms
Stop 7 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

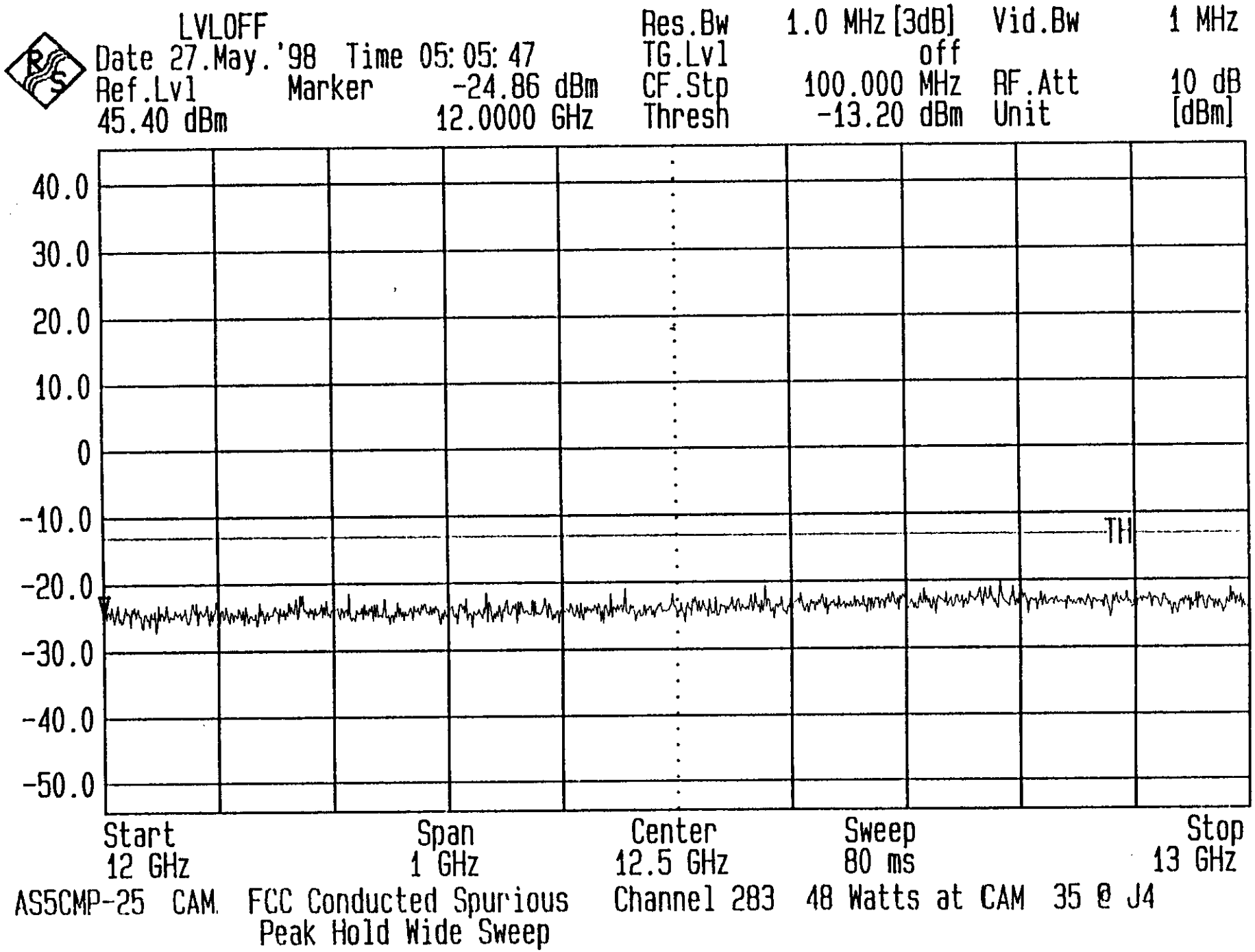

LVLOFF
Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
Date 27.May.'98 Time 04:46:17
TG.Lvl off
Ref.Lvl Marker -23.74 dBm CF.Stp 100.000 MHz RF.Att 10 dB
45.40 dBm 7.0000 GHz Thresh -13.20 dBm Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 7 GHz
Span 1 GHz
Center 7.5 GHz
Sweep 80 ms
Stop 8 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

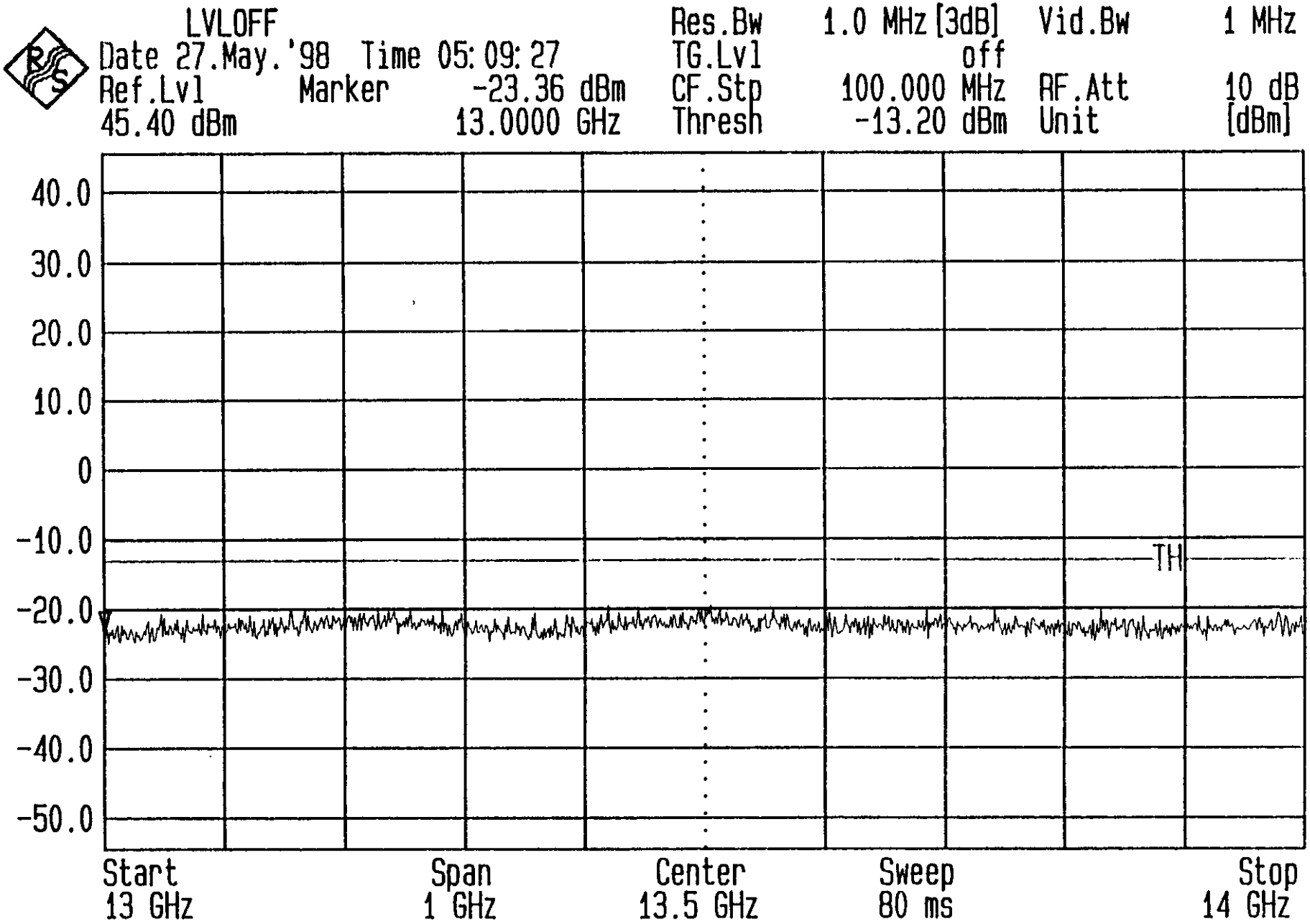

LVLOFF
Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
Date 27.May.'98 Time 04:50:08 TG.Lvl off
Ref.Lvl Marker -24.71 dBm CF.Stp 100.000 MHz RF.Att 10 dB
45.40 dBm 8.0000 GHz Thresh -13.20 dBm Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 8 GHz
Span 1 GHz
Center 8.5 GHz
Sweep 80 ms
Stop 9 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep


LVLOFF
Date 27.May.'98 Time 04:53:27
Ref.Lvl
45.40 dBm
Marker
-25.06 dBm
9.0000 GHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 100.000 MHz
Thresh -13.20 dBm
Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 9 GHz
Span 1 GHz
Center 9.5 GHz
Sweep 80 ms
Stop 10 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

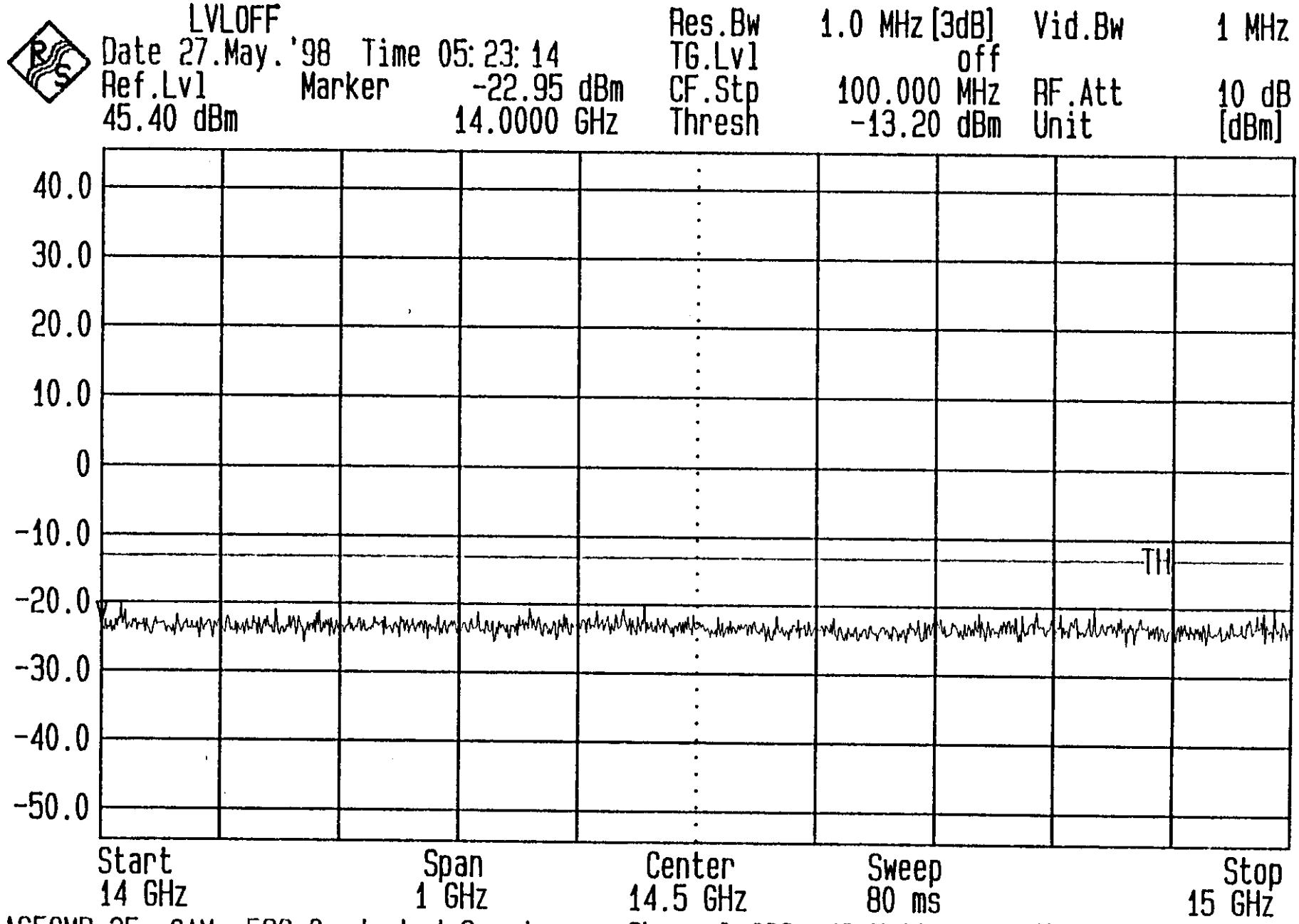

LVLOFF
Res.Bw 1.0 MHz [3dB]
Vid.Bw 1 MHz
Date 27.May.'98 Time 04:58:38
TG.Lvl off
Ref.Lvl Marker -22.85 dBm
CF.Stp 100.000 MHz
RF.Att 10 dB
45.40 dBm 10.0000 GHz
Thresh -13.20 dBm
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 10 GHz
Span 1 GHz
Center 10.5 GHz
Sweep 80 ms
Stop 11 GHz
AS5CMP--25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

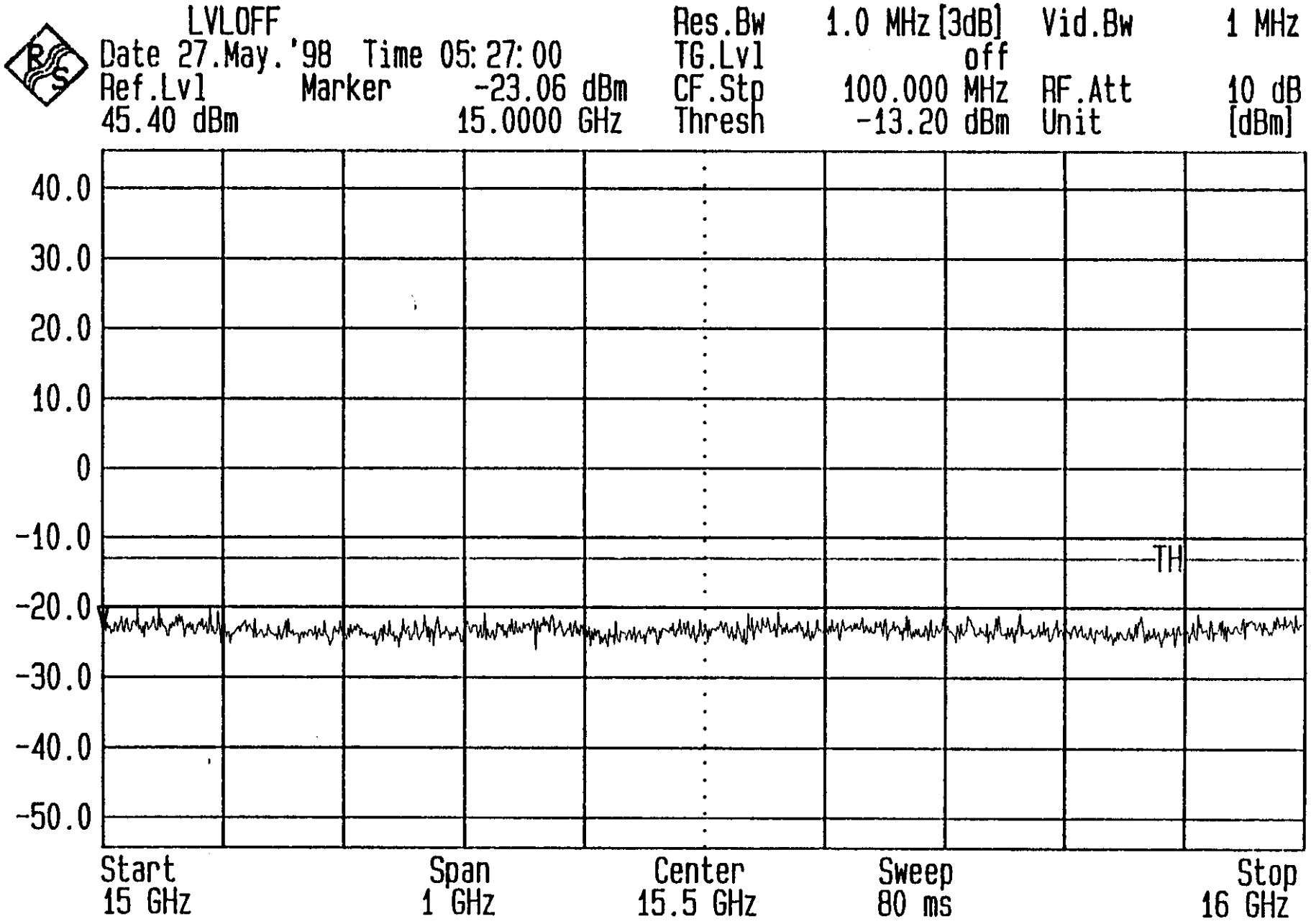

LVLOFF
Res.Bw 1.0 MHz [3dB]
Vid.Bw 1 MHz
Date 27.May.'98 Time 05:02:05
TG.Lvl off
Ref.Lvl Marker -25.32 dBm
CF.Stp 100.000 MHz
RF.Att 10 dB
45.40 dBm 11.0000 GHz
Thresh -13.20 dBm
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 11 GHz
Span 1 GHz
Center 11.5 GHz
Sweep 80 ms
Stop 12 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep


LVLOFF
Date 27.May.'98 Time 05:05:47
Ref.Lvl
45.40 dBm
Marker
-24.86 dBm
12.0000 GHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 100.000 MHz
Thresh -13.20 dBm
Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 12 GHz
Span 1 GHz
Center 12.5 GHz
Sweep 80 ms
Stop 13 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

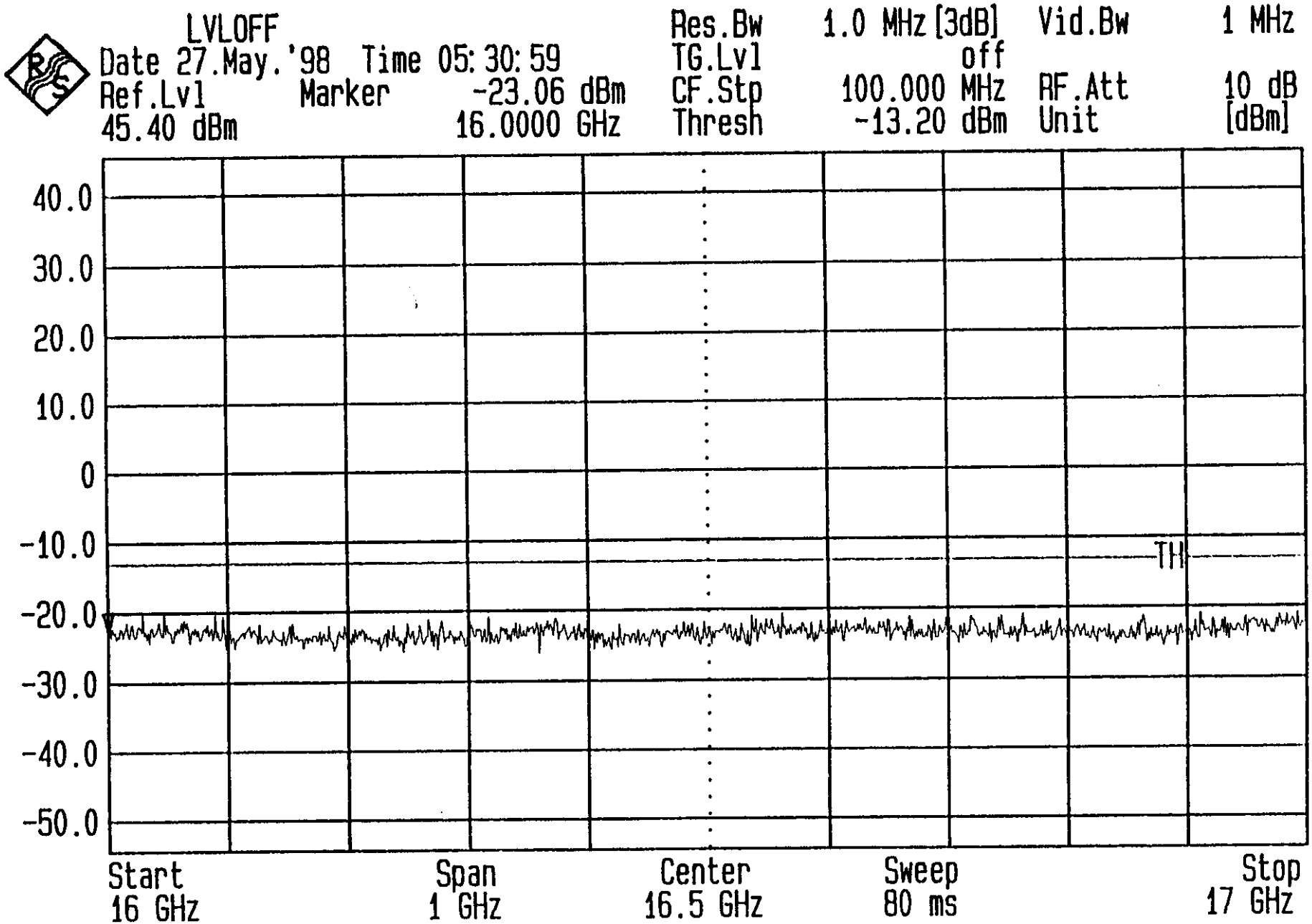


AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep


LVLOFF
Date 27.May.'98 Time 05:23:14
Ref.Lvl
45.40 dBm
Marker
-22.95 dBm
14.0000 GHz
Res.Bw
1.0 MHz [3dB]
TG.Lvl
off
CF.Stp
100.000 MHz
Thresh
-13.20 dBm
Vid.Bw
1 MHz
RF.Att
10 dB
Unit
[dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start
14 GHz
Span
1 GHz
Center
14.5 GHz
Sweep
80 ms
Stop
15 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep



AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep


LVLOFF
Date 27.May.'98 Time 05:30:59
Ref.Lvl
45.40 dBm
Marker
-23.06 dBm
16.0000 GHz
Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 100.000 MHz
Thresh -13.20 dBm
Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start 16 GHz
Span 1 GHz
Center 16.5 GHz
Sweep 80 ms
Stop 17 GHz
AS5CMP-25 CAM FCC Conducted Spurious
Peak Hold Wide Sweep
Channel 283 48 Watts at CAM 35 @ J4

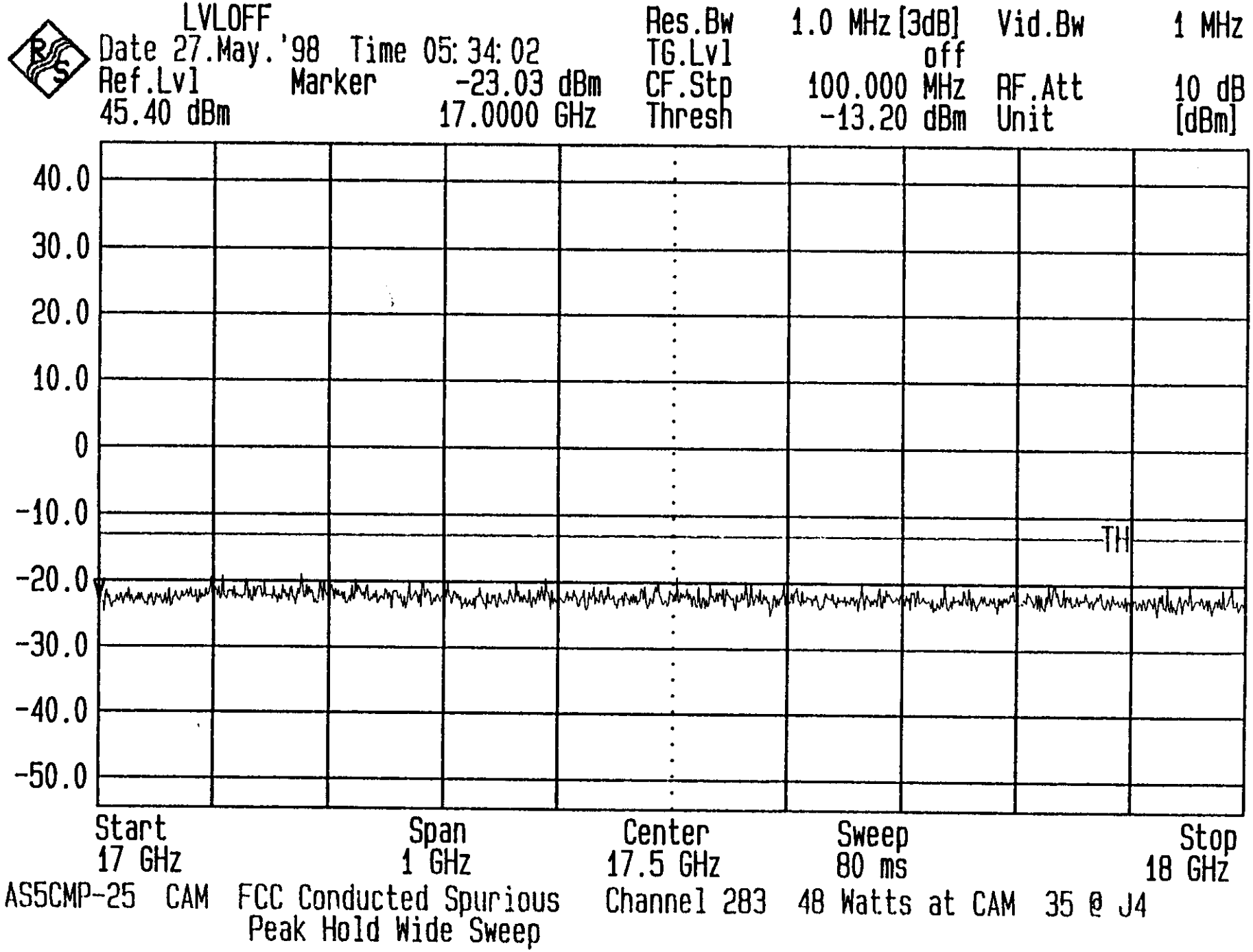

LVLOFF
Date 27.May.'98 Time 05:34:02
Ref.Lvl
45.40 dBm
Marker
-23.03 dBm
17.0000 GHz
Res.Bw
1.0 MHz [3dB]
TG.Lvl
off
CF.Stp
100.000 MHz
Thresh
-13.20 dBm
Vid.Bw
1 MHz
RF.Att
10 dB
Unit
[dBm]
40.0
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
TH
Start
17 GHz
Span
1 GHz
Center
17.5 GHz
Sweep
80 ms
Stop
18 GHz
AS5CMP-25 CAM FCC Conducted Spurious Channel 283 48 Watts at CAM 35 @ J4
Peak Hold Wide Sweep

Exhibit 16

SECTION 2.993
FIELD STRENGTH OF SPURIOUS RADIATION

Field strength measurements of radiated spurious emissions were made at a ten meter test site (open field) maintained by Lucent Technologies Bell Laboratories Department JW861COO in Whippany, New Jersey. A complete description and full measurement data for the site have been placed on file with the Commission.

The BCR was assembled with an CAM and all other associated equipment in an **AUTOPLEX ®** 850 Compact MiniCell. The spectrum from 10 MHz to the tenth harmonic of the carrier was searched for spurious radiation. Measurements were made using both horizontally and vertically polarized antennas. All emissions more than 20 dB below the specification limit were considered not reportable (Section 2.997).

The calculated emission levels were found by:

Pmeas (dBm) + Cable Loss (dB) + Antenna Factor (dB) + 107 (conv. factor)
= Field Strength (dBmicroV/m)

Section 22.907 contains the requirements for the levels of spurious radiation as a function of the level of the unmodulated carrier. The reference level for the unmodulated carrier is calculated as the field produced by an ideal dipole excited by the transmitter output power according to the following relation taken from Reference Data for Radio Engineers, page 676, 4th edition, IT&T Corp.

$$E = [(49.2P)\exp(1/2)] / R$$

$$20 \log (E * 10\exp(6)) - (43 + 10 \log P) = 73.9 \text{ dB microV/meter}$$

E = Field Intensity in Volts/ meter
P = Transmitted Power in watts = 16 W
R = Distance in meters = 10 m

RESULTS:

For this particular test, the field strength of any spurious radiation is required to be less than 73.9 dB microV/meter. Reportable measurements are equal to or greater than 53.9 dB microV/meter. Over the spectrum investigated, 15 MHz to tenth harmonic of the carrier, no reportable spurious emissions were detected. This demonstrates that the CDMA Amplifier Module (CAM), the subject of this application, complies with Sections 2.993, 22.907 and 2.997 of the Rules.

Exhibit 17

SECTION 2.995

MEASUREMENT OF FREQUENCY STABILITY

RESPONSE:
The frequency stabilization and accuracy of the CDMA signal amplified by the CAM is a function of the input signal which is provided by the BCR (FCC ID: **AS5CMP-21**). The Reference Frequency Timing Generator (RFTG-m) is the GPS locked signal source used for frequency lock by the BCR and was previously reported for FCC ID: **AS5CMP-12 and AS5CMP-21**. The Reference Frequency Timing Generator (RFTG-m) is being replaced in all Lucent CDMA equipment by either the RFTG-m-II or the RFTG-U. The RFTG-m-II is an RFTG-m unit whose output amplifier is adjusted to provide an additional +6dB increase in amplitude of the output timing signal. The signal level is then reduced via a signal coupler to provide the same signal level for distribution throughout the equipment. This modification was performed in order to provide a reliable signal to a greater number of co-located equipment. The RFTG-U is a new design which uses the same Rubidium reference oscillator as the RFTG-m equipment. Both devices meet the frequency stability requirements necessary for **AUTOPLEX ®** system compliance with FCC Rules for frequency stability. These devices are compliant with FCC Part 15 rules when powered by and installed in Lucent Technologies cabinets.

The following data shows frequency stability tests for the RFTG-U.

10 MHz Frequency and Power Variations Over Temperature (Locked to GPS)

REF 0 (Primary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.54
10	0.11
20	0.10
30	0.07
40	0.09
50	0.13
60	0.56
65	2.14
Spec	50.00
Result	Pass

REF 0 (Primary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.40	23.39
10	23.44	23.44
20	23.45	23.45
30	23.42	23.41
40	23.35	23.35
50	23.29	23.28
60	23.20	23.20
65	23.17	23.17
Spec	25.00	21.00
Result	Pass	Pass

REF 2 (Secondary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.40
10	0.05
20	0.04
30	0.13
40	0.05
50	0.05
60	0.02
65	0.03
Spec	50.00
Result	Pass

REF 1 (Secondary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.40	23.39
10	23.45	23.44
20	23.48	23.47
30	23.46	23.46
40	23.41	23.40
50	23.35	23.34
60	23.27	23.26
65	23.24	23.24
Spec	25.00	21.00
Result	Pass	Pass

Note: All tabulated results are computed from 10 measurements taken at the corresponding voltage.

10 MHz Frequency and Power Variations Over Temperature (Not Locked to GPS)

REF 0 (Primary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.23
10	0.33
20	0.34
30	0.35
40	0.48
50	0.55
60	0.66
65	2.44
Spec	50.00
Result	**Pass**

REF 0 (Primary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.16	23.15
10	23.16	23.16
20	23.16	23.15
30	23.13	23.12
40	23.07	23.06
50	22.99	22.98
60	22.92	22.90
65	23.18	23.18
Spec	25.00	21.00
Result	**Pass**	**Pass**

REF 2 (Secondary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.26
10	0.39
20	0.39
30	0.63
40	0.55
50	0.63
60	0.72
65	2.60
Spec	50.00
Result	**Pass**

REF 1 (Secondary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.15	23.12
10	23.17	23.17
20	23.19	23.18
30	23.16	23.16
40	23.11	23.10
50	23.03	23.02
60	22.96	22.95
65	23.26	23.25
Spec	25.00	21.00
Result	**Pass**	**Pass**

Note: All tabulated results are computed from 10 measurements taken at the corresponding voltage.

10 MHz Frequency and Power Variations Over Voltage (@ 25 deg. C & Not Locked to GPS)

REF 0 (Primary)

Voltage (VDC)	Max. Freq Deviation (Parts per Billion)
19	1.01
20	0.97
21	0.88
22	0.86
23	0.83
24	0.84
25	0.84
26	0.81
27	0.81
28	0.81
29	0.80
30	0.80
31	0.83
32	0.85
Spec	50.00
Result	**Pass**

REF 0 (Primary)

Voltage (VDC)	Power (dBm)	
	Maximum	Minimum
19	23.42	23.41
20	23.42	23.41
21	23.42	23.42
22	23.42	23.42
23	23.42	23.42
24	23.42	23.42
25	23.42	23.42
26	23.42	23.42
27	23.42	23.42
28	23.42	23.42
29	23.42	23.42
30	23.42	23.42
31	23.42	23.42
32	23.42	23.42
Spec	25.00	21.00
Result	**Pass**	**Pass**

REF 1 (Secondary)

Voltage (VDC)	Max. Freq Deviation (Parts per Billion)
19	0.80
20	0.75
21	0.95
22	0.87
23	0.90
24	0.92
25	0.89
26	0.88
27	0.88
28	0.84
29	0.86
30	0.87
31	0.87
32	0.93
Spec	50.00
Result	**Pass**

REF 1 (Secondary)

Voltage (VDC)	Power (dBm)	
	Maximum	Minimum
19	23.44	23.43
20	23.42	23.43
21	23.42	23.43
22	23.42	23.43
23	23.42	23.43
24	23.42	23.44
25	23.42	23.44
26	23.42	23.44
27	23.42	23.44
28	23.42	23.44
29	23.42	23.44
30	23.42	23.44
31	23.42	23.44
32	23.44	23.44
Spec	25.00	21.00
Result	**Pass**	**Pass**

Note: All tabulated results are computed from 10 measurements taken at the corresponding voltage.