



Measurement of RF Interference from a
Model AAM27VMR9JA7M,
Cypher Repeater

For : Motorola Inc.
Schaumburg, IL 60196

P.O. No. : NP4946977

Date Tested : November 2 through 19, 2009

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Specification : FCC Part 15, Subpart B and Part 90, Subpart I
: Industry Canada RSS-119
: Industry Canada RSS-GEN

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TABLE OF CONTENTS

PARAGRAPH	DESCRIPTION OF CONTENTS	PAGE NO.
1.0	INTRODUCTION	5
1.1	Description of Test Item.....	5
1.2	Purpose	5
1.3	Deviations, Additions and Exclusions.....	5
1.4	Applicable Documents.....	5
1.5	EMC Laboratory Identification.....	6
1.6	Laboratory Conditions.....	6
2.0	TEST ITEM SET-UP AND OPERATION	6
2.1	Power Input.....	6
2.2	Grounding	6
2.3	Peripheral Equipment.....	6
2.4	Interconnect Cables	6
2.5	Operational Mode.....	6
2.6	Test Item Modifications	6
3.0	TEST EQUIPMENT.....	6
3.1	Test Equipment List.....	7
3.2	Calibration Traceability	7
3.3	Measurement Uncertainty	7
4.0	REQUIREMENTS, PROCEDURES AND RESULTS	7
4.1	Receiver.....	7
4.1.1	Powerline Conducted Emissions.....	7
4.1.1.1	Requirements.....	7
4.1.1.2	Procedures.....	8
4.1.2	Antenna Conducted Emissions Measurements	8
4.1.2.1	Requirements.....	8
4.1.2.2	Procedures.....	8
4.1.2.3	Results	8
4.1.3	Radiated Measurements	9
4.1.3.1	Requirements.....	9
4.1.3.2	Procedures.....	9
4.1.3.3	Results	10
4.2	Transmitter	10
4.2.1	RF Power Output	10
4.2.1.1	Requirements	10
4.2.1.2	Procedures	10
4.2.1.3	Results	10
4.2.2	Emission Mask	11
4.2.2.1	Requirements.....	11
4.2.2.2	Procedures.....	12
4.2.2.3	Results	12
4.2.3	Spurious Emissions At Antenna Terminal	12
4.2.3.1	Requirements.....	12
4.2.3.2	Procedures.....	13
4.2.3.3	Results	13

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4.2.4 Field Strength Of Spurious Emissions	13
4.2.4.1 Requirements	13
4.2.4.2 Procedures	13
4.2.4.3 Results	14
4.2.5 Frequency Stability	14
4.2.5.1 Requirements	14
4.2.5.2 Procedures	14
4.2.5.3 Results	15
5.0 CONCLUSIONS.....	15
6.0 CERTIFICATION	16
7.0 ENDORSEMENT DISCLAIMER.....	16
TABLE I - EQUIPMENT LIST.....	Error! Bookmark not defined.

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REVISION HISTORY

Revision	Date	Description
—	December 3, 2009	Initial release

Measurement of RF Emissions from a Motorola Inc.

Model AAM27VMR9JA7M Cypher Repeater

1.0 INTRODUCTION:

1.1 Description of Test Item - This document presents the results of the series of radio interference measurements performed on a Motorola Inc., Model AAM27VMR9JA7M Cypher Repeater, Serial No. 484TKS3462 (hereinafter referred to as the test item). The test item is designed to transmit in the range of 851MHz to 869MHz and receive in the frequency range of 806MHz to 825MHz. The test item employs an external antenna. The receiver contained one local oscillator at 73.35MHz below the carrier. The test item was submitted for testing by Motorola Inc. located in Schaumburg, IL.

1.2 Purpose - The test series was performed to determine if the test item meets FCC and Industry Canada (IC) technical requirements for receivers and transmitter. The test item shall comply with the technical requirements of FCC Part 15 and 90; and IC RSS-119. The testing includes the conducted and radiated RF emission requirements for receivers, and the RF power output, emissions mask, spurious emissions at antenna terminal, field strength of spurious emissions and frequency stability requirements for the transmitters. Testing was performed in accordance with ANSI C63.4-2003 and TIA-603-C-2004.

1.3 Deviations, Additions and Exclusions - There were no deviations, additions to, or exclusions from the test specification during this test series.

1.4 Applicable Documents - The following documents of the exact issue designated form part of this document to the extent specified herein:

- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 15, dated 1 October 2009
- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 90, dated 1 October 2009
- ANSI C63.4-2003, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"
- TIA-603-C-2004, "Land Mobile FM or PM – Communications Equipment – Measurement and Performance Standards"
- RSS-119 - Land Mobile and Fixed Radio Transmitters and Receivers



Operating in The Frequency Range 27.41- 960 MHz Issue 9 June 2007

1.5 EMC Laboratory Identification - This series of tests was performed by Elite Electronic Engineering Incorporated of Downers Grove, Illinois. The laboratory is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP Lab Code: 100278-0.

1.6 Laboratory Conditions The temperature at the time of the test was 21.2°C and the relative humidity was 25%.

2.0 TEST ITEM SET-UP AND OPERATION:

The test item is a Motorola Inc., Model AAM27VMR9JA7M Cypher Repeater. The test item is designed to transmit in the range of 851MHz to 869MHz and receive in the frequency range of 806MHz to 825MHz. The test item operates at two power levels, 10 Watts and 42 Watts. The test item operates with two channel bandwidths, 12.5kHz and 25kHz. Photographs of the test item are shown as Figure 2.

2.1 Power Input - The 120 VAC 60 Hz power was provided to the test item through a 3 wire, 6 foot long shielded cord.

2.2 Grounding - The test item was grounded through the third wire of its input power cord.

2.3 Peripheral Equipment - No peripheral equipment was submitted with the test item.

2.4 Interconnect Cables - A multi-pin connector was supplied to provide connections for the control functions. The control leads were connected to the USB port of a laptop computer to control the transmit and receive tuned frequencies, the power output and the channel bandwidth.

2.5 Operational Mode - For all receiver tests except conducted emissions, the test item was set to receive separately at 806MHz, 815.5MHz and 825MHz. For the conducted emissions test the receiver was set to receive at 815.5MHz.

For transmitter tests, the test item was set to transmit at 860.5MHz. For testing the transmitter to the occupied bandwidth requirements the test item was set to transmit at 852.5MHz, 854.0125MHz and 868.9875MHz.

2.6 Test Item Modifications - No modifications were required for compliance to the requirements.

3.0 TEST EQUIPMENT:

3.1 Test Equipment List - A list of the test equipment used can be found on Table I. All equipment was calibrated per the instruction manuals supplied by the manufacturer.

3.2 Calibration Traceability - Test equipment is maintained and calibrated on a regular basis. All calibrations are traceable to the National Institute of Standards and Technology (NIST).

3.3 Measurement Uncertainty - All measurements are an estimate of their true value. The measurement uncertainty characterizes, with a specified confidence level, the spread of values which may be possible for a given measurement system.

The measurement uncertainty budgets were based on guidelines in "ISO Guide to the Expression of Uncertainty in Measurements" and NAMAS NIS81 "The Treatment of Uncertainty in EMC Measurements".

The measurement uncertainty for these tests is presented below:

Conducted Emission Measurements		
Combined Standard Uncertainty	1.07 dB	-1.07 dB
Expanded Uncertainty (95% confidence)	2.1 dB	-2.1 dB

Radiated Emission Measurements		
Combined Standard Uncertainty	2.26 dB	-2.18 dB
Expanded Uncertainty (95% confidence)	4.5 dB	-4.4 dB

4.0 REQUIREMENTS, PROCEDURES AND RESULTS:

4.1 Receiver:

4.1.1 Powerline Conducted Emissions:

4.1.1.1 Requirements - All radio frequency voltages on the power lines of a Receiver shall be below the values shown below when using a quasi-peak detector:

CONDUCTED EMISSION LIMITS FOR RECEIVERS

Frequency MHz	RFI Voltage dBuV(QP)	RFI Voltage dBuV(Average)
0.15-0.5	66 decreasing with logarithm of frequency to 56	56 decreasing with logarithm of frequency to 46
0.5-5	56	46
5-30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: If the levels measured using the QP detector meet both the QP and the

Average limits, the test item is considered to have met both requirements and measurements do not need to be performed using the Average detector.

4.1.1.2 Procedures - The interference on each input power lead of the test item was measured by connecting the measuring equipment to the appropriate meter terminal of the LISN. The meter terminal of the LISN not under test was terminated with 50 ohm. Measurements were first made over the entire frequency range from 150 kHz through 30MHz with a peak detector and the results were automatically plotted. The data thus obtained was then searched by the computer for the highest levels. Quasi-peak measurements were automatically performed at the frequencies selected from the highest peak measurements, and the results printed.

4.1.1.3 Results - The plots of the peak preliminary conducted voltage levels on each power line, with the test item in the receive mode at 815.5 MHz, are presented on pages 22 and 23. The conducted limits for receivers are shown as a reference. The final quasi-peak results are presented on pages 24 and 25. As can be seen from the data, all emissions measured from the test item were within the specification limits.

4.1.2 Antenna Conducted Emissions Measurements:

4.1.2.1 Requirements - This test is performed to determine the test item configuration during the radiated RF emissions tests. The power at the antenna terminal over the frequency range 30MHz to 5000MHz may be measured. If the emissions at the antenna terminal exceed 2 nanowatts, it is necessary to perform the radiated RF emissions tests with the antenna port terminated with an equivalent antenna. If the test item does meet the 2 nanowatt requirement, the radiated emissions tests can be performed with the antenna port terminated with a shielded load.

4.1.2.2 Procedures - The measuring equipment was connected to the test item's antenna port. The emissions in the frequency range from 30MHz to 2000MHz were observed and then plotted.

4.1.2.3 Results - The results of the antenna conducted measurements are presented on pages 26 through 28. The reference line shown on the data pages represents the 2 nanowatt requirement. As can be seen from the data pages, all emissions from the test item were below the 2 nanowatt requirement. Since the emissions were below the 2 nanowatt limit, the antenna port was terminated with a shielded load for radiated emissions



measurements.

4.1.3 Radiated Measurements:

4.1.3.1 Requirements - All emanations from a receiver shall be below the levels shown on the following table:

RADIATED EMISSION LIMITS FOR RECIEVERS

Frequency MHz	Distance between Test Item And Antenna in Meters	Field Strength uV/m
30-88	3	100
88-216	3	150
216-960	3	200
Above 960	3	500

Note: The tighter limit shall apply at the edge between the two frequency bands.

4.1.3.2 Procedures - All tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. The walls and ceiling of the shielded chamber are lined with ferrite tiles. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2003 for site attenuation.

The shielded enclosure prevents emissions from other sources, such as radio and TV stations from interfering with the measurements. All power lines and signal lines entering the enclosure pass through filters on the enclosure wall. The power line filters prevent extraneous signals from entering the enclosure on these leads.

Since a quasi-peak detector requires long integration times, it is not practical to automatically sweep through the quasi-peak levels. Therefore, radiated emissions from the test item were first scanned using a peak detector and automatically plotted. The frequencies where significant emission levels were noted were then remeasured using the quasi-peak detector.

The broadband measuring antenna was positioned at a 3 meter distance from the test item. The frequency range from 30MHz to 2000MHz was investigated using a peak detector function with a bilog antenna. The frequency range above 2000MHz was investigated using a peak detector function with a waveguide antenna. The maximum levels were plotted.

Final radiated emissions were performed on all significant broadband and narrowband emissions found in the preliminary sweeps using the following methods:

- 1) For all frequencies 1GHz and below, measurements were made using a broadband bi-log antenna.
- 2) For all frequencies above 1GHz, measurements were made using a waveguide antenna.
- 3) To ensure that the maximum, or worst case, emission levels were measured, the following steps were taken:
 - (a) The test item was rotated so that all of its sides were exposed to the receiving antenna.
 - (b) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - (c) The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.

4.1.3.3 Results - The preliminary plots are presented on pages 29 through 40. These plots are presented for a reference only, and are not used to determine compliance. The final radiated levels are presented on pages 41 through 45.

As can be seen from the final data, all emissions measured from the test item were within the specification limits. A block diagram of the radiated emissions test set-up is shown on Figure 1. Photographs of the test configuration which yielded the highest or worst case radiated emission levels are shown in Figures 2.

4.2 Transmitter:

4.2.1 RF Power Output:

4.2.1.1 Requirements - The output power shall not exceed by more than 20 percent the manufacturer's rated output power for the particular transmitter specifically listed on the authorization.

4.2.1.2 Procedures - With the test item transmitting at 860.5 MHz, the antenna port of the test item was connected to a spectrum analyzer through 60 dB of attenuation. The resolution bandwidth of the spectrum analyzer was set wider than the bandwidth of the test item. The output power of the item was then measured.

4.2.1.3 Results - The output power measurements are shown in a tabular form on page 47. As can be seen from the data, the power output at each frequency meets the requirement for maximum allowable power of 20% above the manufacturer's rated output power.

4.2.2 Emission Mask

4.2.2.1 Requirements - For equipment operating in the 851 to 854MHz and 854MHz to 869MHz frequency bands with a 12.5 kHz or a 25 kHz channel bandwidth, any emissions must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB.

In addition for equipment operating in the 854 to 869MHz frequency band:

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
 - (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
 - (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in.

Per RSS 119, equipment operating in the 866 to 869MHz frequency bands with a 12.5kHz channel bandwidth, any emissions must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to 5.625kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625kHz but no more than 12.5kHz: At least $7.25(f_d - 2.88\text{kHz})$ dB.
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5kHz; At least $50 + 10 \log (P)$

dB or 70dB whichever is the lesser attenuation.

4.2.2.2 Procedures - The test item was set to transmit at 852.5MHz.

- (a) The antenna port of the test item was connected to a spectrum analyzer through a 60dB attenuator.
- (b) The following spectrum analyzer settings were employed:
 - o trace 1 = on
 - o center frequency = transmit frequency of the test item
 - o resolution bandwidth = 1MHz
 - o video bandwidth > resolution bandwidth
 - o frequency span = 100kHz/200kHz
 - o sweep = Auto
 - o detector function = peak
 - o trace = max hold
- (c) Several sweeps were made with the settings listed above.
- (d) The reference level was set to this level.
- (e) The following spectrum analyzer settings were employed:
 - o trace 2 = on
 - o resolution bandwidth = 100Hz/300Hz
 - o video bandwidth = 1kHz
 - o sweep = Auto
 - o detector function = peak
 - o trace = max hold
- (f) Several sweeps were made with the settings listed above.
- (g) The measurement was recorded.
- (h) Steps (a) through (g) were repeated with the test item was set to transmit at 854.0125MHz.
- (i) Steps (a) through (g) were repeated with the test item was set to transmit at 868.9875MHz.

4.2.2.3 Results - The spectrum analyzer plots of the emissions of the test item are shown on pages 48 through 257. The limits, shown on the plots, are referenced to the power measured with a 1MHz resolution bandwidth. As can be seen from the data, the test item did comply with the emission mask requirements. The 99% bandwidth measurement is 11 kHz for the 12.5 kHz channel, 16.5 kHz for the 25 kHz channel and 7.8 kHz when using digital modulation.

4.2.3 Spurious Emissions at Antenna Terminal

4.2.3.1 Requirements - For a 12.5 or 25kHz channel - on any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz)

of more than 250% of the emission bandwidth, the emissions must be attenuated by at least $43 + 10\log(P)$ dB.

4.2.3.2 Procedures - The test item was set to transmit at 860.5 MHz.

- a) The antenna port of the test item was connected to a spectrum analyzer through a 60dB attenuator.
- b) The resolution bandwidth of the spectrum analyzer was set to 100kHz.
- c) A sweep was made from 30MHz to 1GHz.
- d) The resolution bandwidth of the spectrum analyzer was set to 1MHz.
- e) A sweep was made from 1GHz to 9GHz.

4.2.3.3 Results - The plots of the antenna conducted output measurements are presented on pages 258 through 268. As can be seen from the data, the test item did not produce spurious emissions in excess of the limit.

4.2.4 Field Strength Of Spurious Emissions:

4.2.4.1 Requirements - For a 12.5 or 25kHz channel - on any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 250% of the emission bandwidth, the emissions must be attenuated by at least $43 + 10\log(P)$ dB.

4.2.4.2 Procedures - All tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. The walls and ceiling of the shielded chamber are lined with ferrite tiles. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4 2003 for site attenuation.

The shielded enclosure prevents emissions from other sources, such as radio and TV stations from interfering with the measurements. All powerlines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads.

1. Preliminary radiated emissions measurements were first performed using a peak detector and automatically plotted. The broadband measuring antenna was positioned at a 3 meter distance from the test item. The entire frequency range from 30MHz to 9GHz was investigated using a peak detector function. All preliminary tests were performed separately with the test item operating in the transmit mode at 860.5 MHz.
2. All significant broadband and narrowband signals found in the preliminary sweeps were

then measured using a peak detector at a test distance of 3 meters. The measurements were made with a tuned dipole or double ridged waveguide antenna over the frequency range of 30MHz to 9GHz.

3. To ensure that maximum emission levels were measured, the following steps were taken:
 - a) The test item was rotated so that all of its sides were exposed to the receiving antenna.
 - b) Since the measuring antennas are linearly polarized, both horizontal and vertical field components were measured.
 - c) The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.
4. The equivalent power was determined from the field intensity levels measured at 3 meters using the substitution method. To determine the emission power a tuned dipole or double ridged waveguide antenna was set in place of the test item and connected to a calibrated signal generator. The output of the signal generator was adjusted to match the received level at the spectrum analyzer. The signal level was recorded. The reading was corrected to compensate for cable loss, as required, and when the double ridged waveguide antenna was used, increased by the difference in gain between the dipole and the waveguide antenna.

4.2.4.3 Results - The preliminary radiated emissions plots for the transmitter are presented on pages 269 through 272, 274 through 277, 279 through 282, 284 through 287. Factors for the antennas and cables were added to the data before it was plotted. This data is only presented for a reference, and is not used as official data.

The final radiated levels are presented on pages 273, 278, 283 and 288. The radiated emissions were measured through the 10th harmonic. As can be seen from the data, all emissions measured from the test item were within the specification limits. Photographs of the test configuration are shown in Figures 3.

4.2.5 Frequency Stability :

4.2.5.1 Requirements - Fixed and base stations operating in these frequency bands with a 12.5kHz channel bandwidth must have a frequency stability of 1.5ppm or less.

4.2.5.2 Procedures - The antenna port of the test item was connected to a frequency counter through a 50dB attenuator. The test item was then placed in a humidity temperature chamber.

- a) The test item was set to transmit at 860.5MHz. The transmit frequency was measured and recorded at ambient temperature.
- b) The temperature chamber was then set to -30°C.
- c) Once the temperature chamber had reached -30°C, the test item was allowed to soak for 60 minutes.
- d) After soaking at -30°C for sixty minutes, the test item was turned on and set to transmit at 860.5MHz and the transmit frequency was measured and recorded.
- e) Steps (b) through (d) were repeated at -20°C.
- f) Steps (b) through (d) were repeated at -10°C.
- g) Steps (b) through (d) were repeated at 0°C.
- h) Steps (b) through (d) were repeated at +10°C.
- i) Steps (b) through (d) were repeated at +20°C.
- j) Steps (b) through (d) were repeated at +30°C.
- k) Steps (b) through (d) were repeated at +40°C.
- l) Steps (b) through (d) were repeated at +50°C.
- m) The test item was then removed from the temperature chamber and allowed to adjust to nominal room temperature.
- n) The supply voltage was checked and adjusted to the nominal level (120VAC). The test item was turned on and set to transmit at 860.5MHz. The transmit frequency was measured and recorded at ambient temperature.
- o) The supply voltage was then varied to 85% of its nominal level (102VAC). The test item was turned on and set to transmit at 860.5MHz. The transmit frequency was measured and recorded at ambient temperature.
- p) The supply voltage was then varied to 115% of its nominal level (138VAC). The test item was turned on and set to transmit at 860.5MHz. The transmit frequency was measured and recorded at ambient temperature.

4.2.5.3 Results - The frequency stability measurements are presented on pages 289 and 290. As can be seen from the data, all frequency deviations were within the 1.5 ppm limit. A photograph of the test configuration is shown on Figure 4.

5.0 CONCLUSIONS:

It was determined that the Motorola Inc., Model AAM27VMR9JA7M Cypher Repeater, did fully comply with the selected technical requirements of FCC Part 15 and 90; and IC RSS-119 for transmitters and receivers.

The test item meets conducted and radiated emission requirements of the FCC Part 15, Subpart B; and RSS-119 for receivers.



The test item meets the RF power output, emissions mask, spurious emissions at antenna terminal, field strength of spurious emissions, frequency stability, and transient frequency behavior requirements of the FCC Part 90, and RSS-119 for transmitters.

6.0 CERTIFICATION:

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specifications.

The data presented in this test report pertains to the test item at the test date. Any electrical or mechanical modification made to the test item subsequent to the specified test date will serve to invalidate the data and void this certification.

7.0 ENDORSEMENT DISCLAIMER:

This report must not be used to claim product endorsement by NVLAP or any agency of the US Government.



Table I: Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
APW2	PREAMPLIFIER	PLANAR ELECTRONICS	PE2-35-120-5R0-10	PL2925	1GHZ-20GHZ	12/16/2008	12/16/2009
CDS2	COMPUTER	GATEWAY	MFATXPNT NMZ 500L	0028483108	1.8GHZ	N/A	
GRE0	SIGNAL GENERATOR	AGILENT TECHNOLOGIES	E4438C	MY42083127	250KHZ-6GHZ	1/12/2009	1/12/2010
GWF2	15MHZ FUNCTION/ARB WAVEFORM GENERATOR	HEWLETT PACKARD	33120A	US34006558	.1HZ-15MHZ	7/23/2009	7/23/2010
GWH2	DDS FUNCTION GENERATOR	WAVETEK	29	079190	0.0001HZ-10MHZ	9/8/2009	9/8/2010
HRE7	LASER JET 6P	HEWLETT PACKARD	C3980A	USCD109509	---	N/A	
NWF0	RIDGED WAVE GUIDE	EMCO	3105	2035	1-12.4GHZ	12/5/2009	12/5/2010
NWH0	RIDGED WAVE GUIDE	TENSOR	4105	2081	1-12.4GHZ	8/11/2009	8/11/2010
RAKG	RF SECTION	HEWLETT PACKARD	85462A	3549A00284	0.009-6500MHZ	1/23/2009	1/23/2010
RAKH	RF FILTER SECTION	HEWLETT PACKARD	85460A	3448A00324	---	1/23/2009	1/23/2010
RBA0	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB26	100145	20HZ-26.5GHZ	2/18/2009	2/18/2010
RBB0	EMI TEST RECEIVER 20HZ TO 40 GHZ.	ROHDE & SCHWARZ	ESIB40	100250	20 HZ TO 40GHZ	3/11/2009	3/11/2010
SEK1	DC POWER SUPPLY	LABORNETZGERAT	L3205	94081004	0-32VDC;0-5A	NOTE 1	
T2DL	20DB, 25W ATTENUATOR	WEINSCHEL	46-20-34	BS0910	DC-18GHZ	8/24/2009	8/24/2010
T2DS	20DB, 25W ATTENUATOR	WEINSCHEL	46-20-34	BS0916	DC-18GHZ	8/24/2009	8/24/2010
T2H0	20DB, 150W ATTENUATOR	BIRD ELECTRONIC CORP	8343-200	1618	DC-1GHZ	2/20/2009	2/20/2010
XLJW	5W, 50 OHM TERMINATION	JFW INDUSTRIES	50T-052	31	DC-2GHZ	8/24/2009	8/24/2010
XLK6	100W 50 OHM TERMINATION	JFW INDUSTRIES	50T-032-1.0	007	DC-1GHz	4/27/2009	4/27/2010

; N/A: Not Applicable; Note 1 - For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

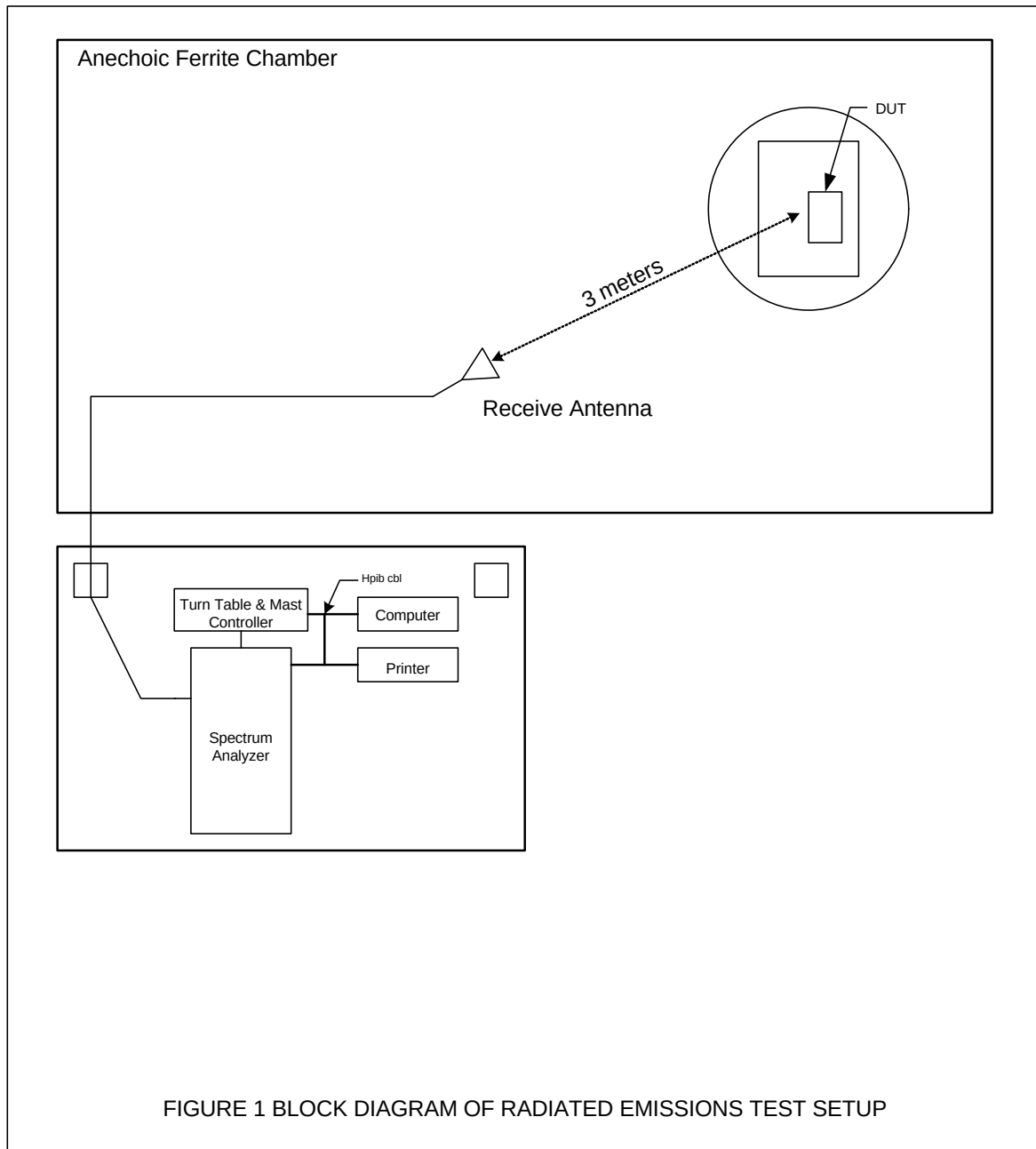
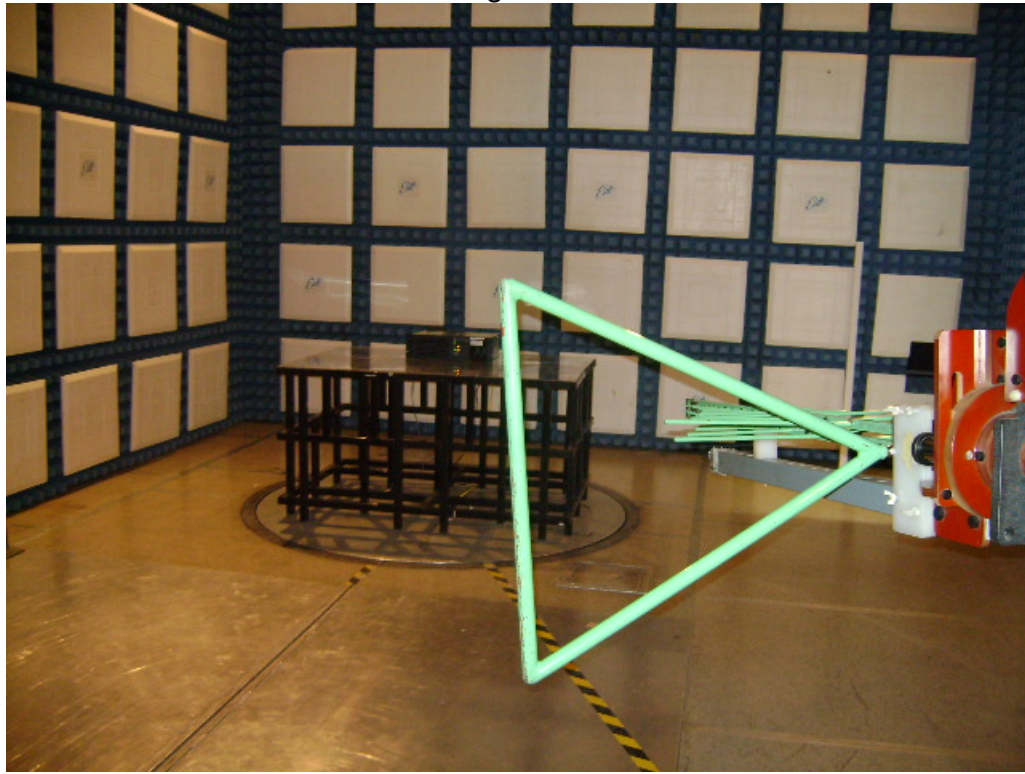
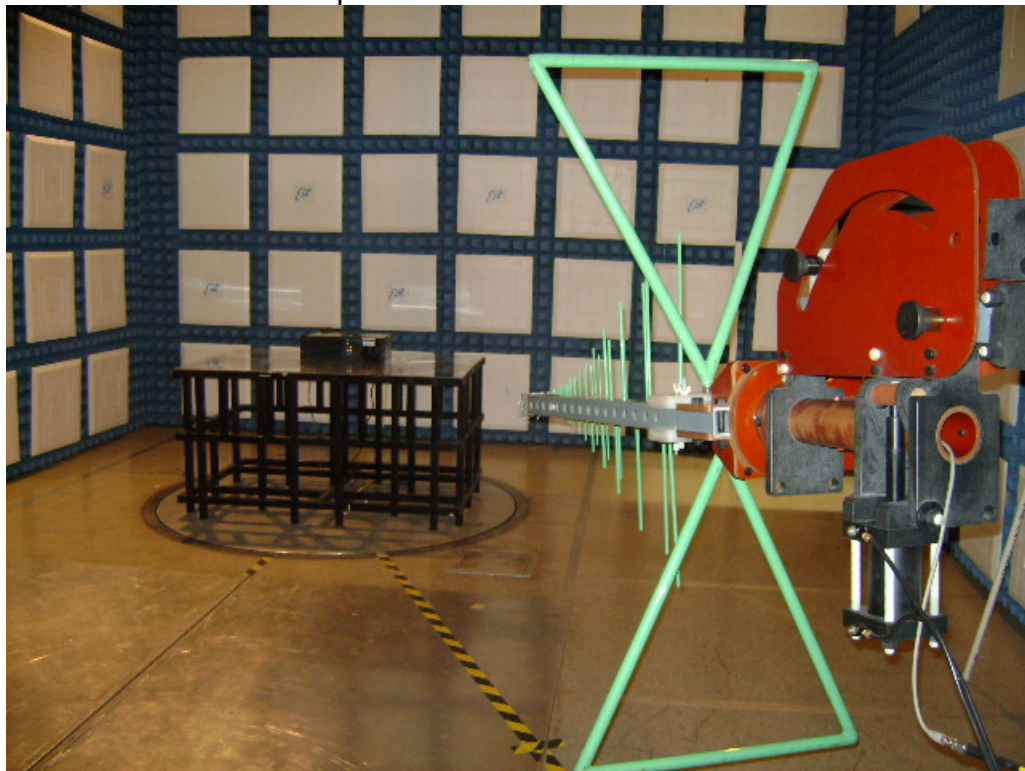


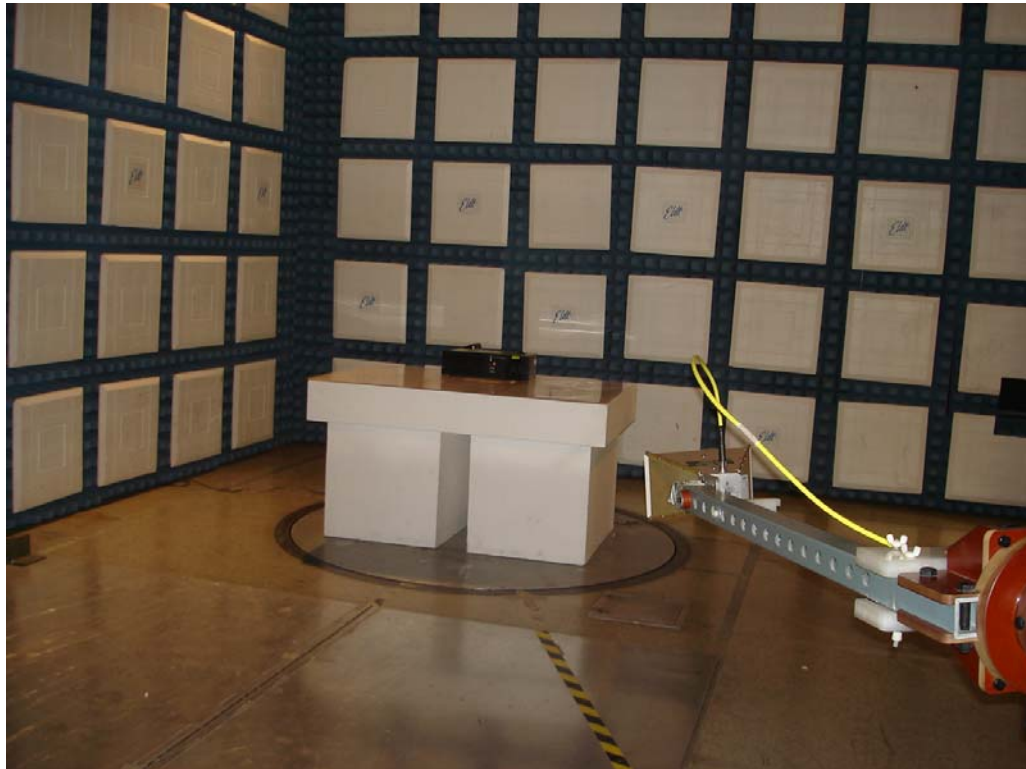
Figure 2



Test Item Set-up for Radiated Emissions Test - Receiver



Test Item Set-up for Radiated Emissions Test - Receiver



Test Set-up for Radiated Emissions, 30MHz to 1GHz - Vertical Polarization



Test Set-up for Radiated Emissions, 30MHz to 1GHz - Horizontal Polarization

Figure 4



Test Set-up for Frequency Stability – Frequency vs. Temperature

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

PRELIMINARY LINE CONDUCTED EMISSIONS

FCC 15B CLASS B

THIS IS A PLOT OF PEAK VALUES

MANUFACTURER: MOTOROLA INC.

MODEL No. : AAM27UMR9JA7M

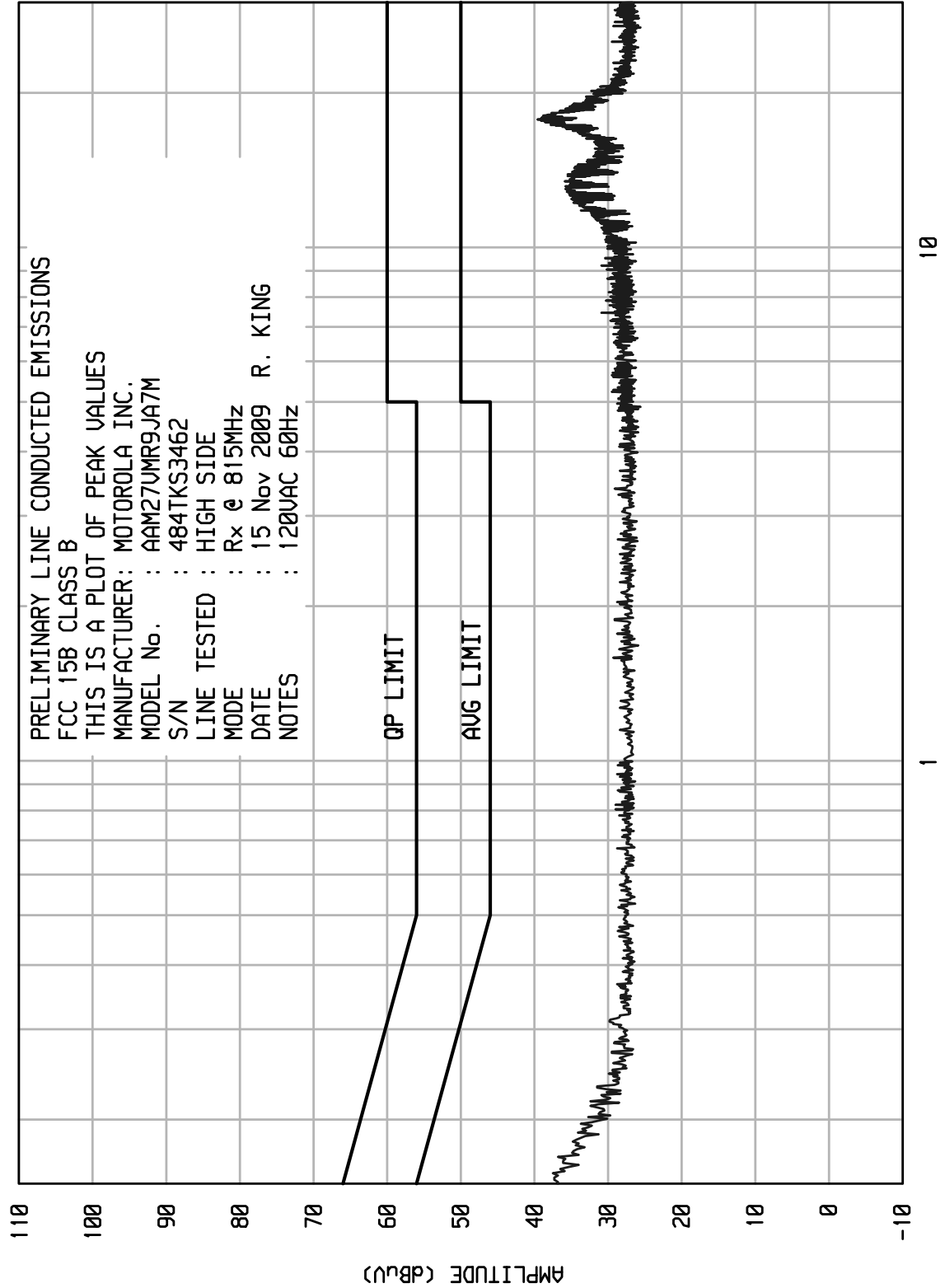
S/N : 484TKS3462

LINE TESTED : HIGH SIDE

MODE : Rx @ 815MHz

DATE : 15 Nov 2009 R. KING

NOTES : 120VAC 60Hz



START = .15

FREQUENCY - MHz

STOP = 30

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

PRELIMINARY LINE CONDUCTED EMISSIONS

FCC 15B CLASS B

THIS IS A PLOT OF PEAK VALUES

MANUFACTURER: MOTOROLA INC.

MODEL No. : AAM27UMR9JA7M

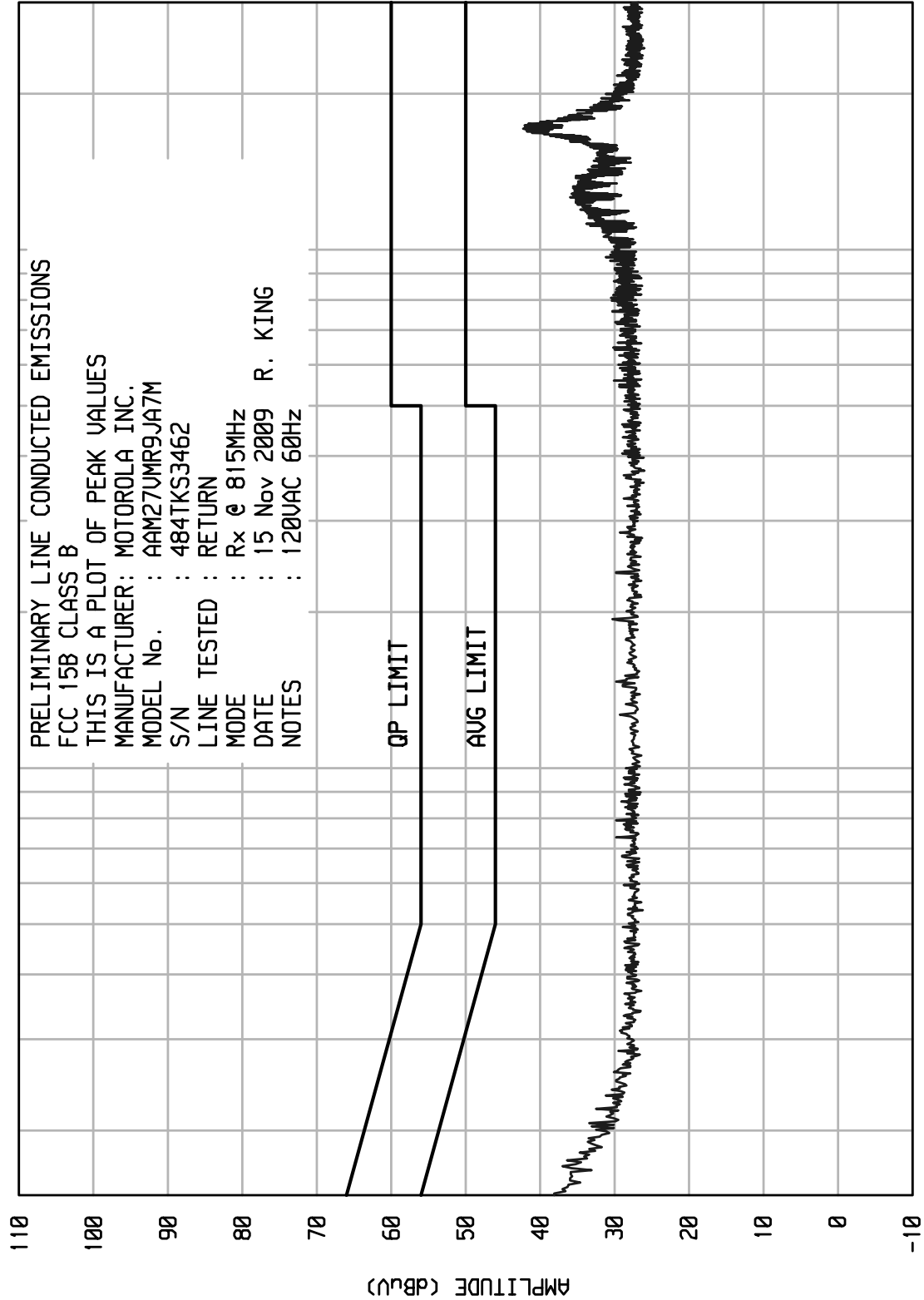
S/N : 484TKS3462

LINE TESTED : RETURN

MODE : Rx @ 815MHz

DATE : 15 Nov 2009 R. KING

NOTES : 120VAC 60Hz



START = .15

FREQUENCY - MHz

10

STOP = 30



ELITE ELECTRONIC ENGINEERING CO.

MANUFACTURER : MOTOROLA INC.
MODEL : AAM27VMR9JA7M
S/N : 484TKS3462
SPECIFICATION : FCC 15B CLASS B
TEST : LINE CONDUCTED EMISSIONS
LINE TESTED : HIGH SIDE
MODE : Rx @ 815MHz
DATE : 15 Nov 2009
NOTES : 120VAC 60Hz
RECEIVER : HP 8566 w/ HP85650A QP ADAPTOR
VALUES MEASURED WITH QP DETECTOR USING 9kHz BANDWIDTH

FREQUENCY MHz	METER RDG. dBuV	QP LIMIT dBuV	AVG RDG dBuV	AVG LIMIT dBuV	NOTES
.299	27.5	60.3		50.3	
.507	27.2	56.0		46.0	
.811	26.0	56.0		46.0	
1.868	26.0	56.0		46.0	
3.345	26.1	56.0		46.0	
5.221	26.5	60.0		50.0	
7.391	27.3	60.0		50.0	
9.925	27.5	60.0		50.0	
12.872	33.1	60.0		50.0	
16.646	30.9	60.0		50.0	
17.731	36.0	60.0		50.0	
20.159	28.7	60.0		50.0	
24.038	25.7	60.0		50.0	
26.928	25.6	60.0		50.0	

Checked BY RICHARD E. King :

Richard E. King



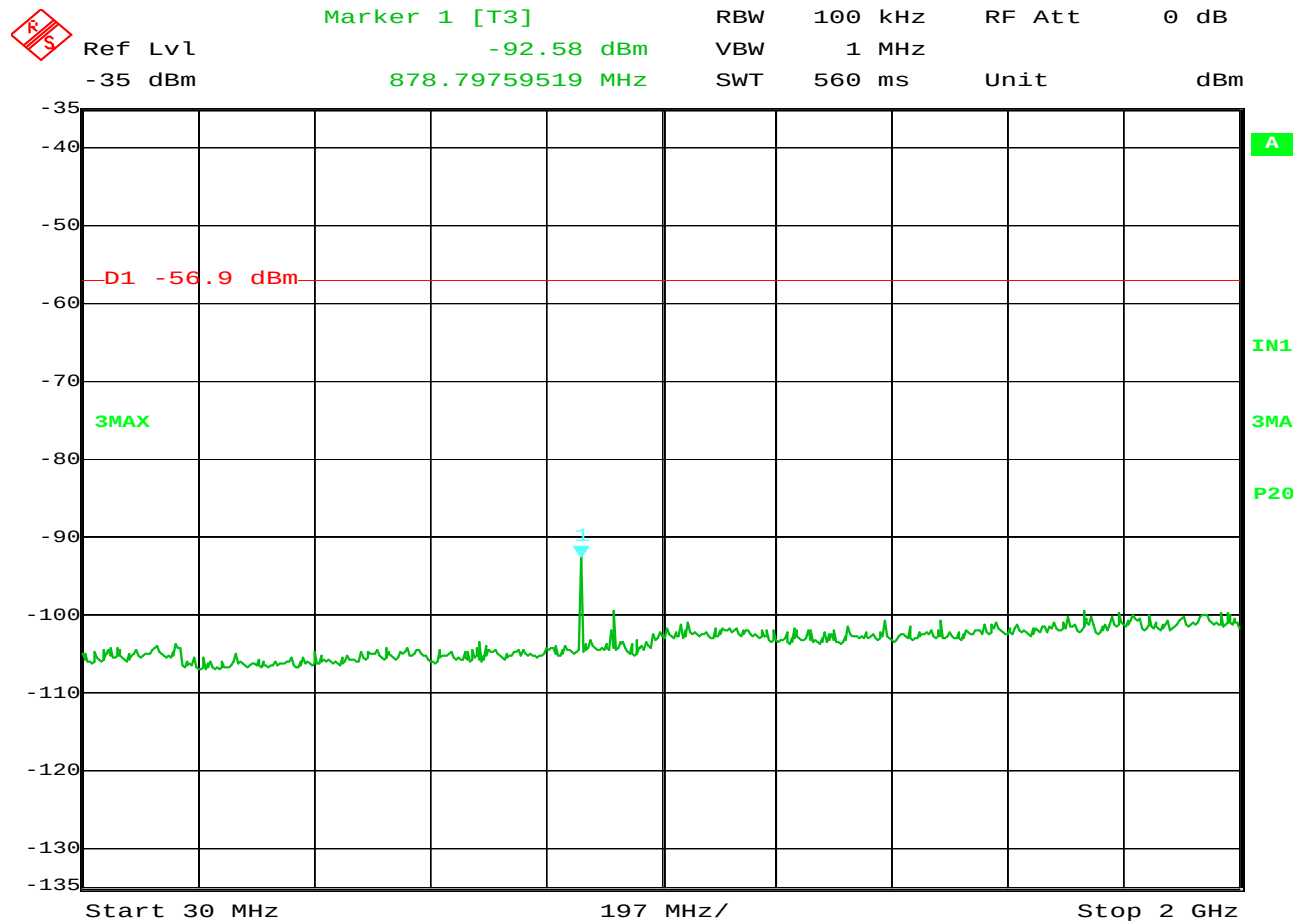
ELITE ELECTRONIC ENGINEERING CO.

MANUFACTURER : MOTOROLA INC.
MODEL : AAM27VMR9JA7M
S/N : 484TKS3462
SPECIFICATION : FCC 15B CLASS B
TEST : LINE CONDUCTED EMISSIONS
LINE TESTED : RETURN
MODE : Rx @ 815MHz
DATE : 15 Nov 2009
NOTES : 120VAC 60HZ
RECEIVER : HP 8566 w/ HP85650A QP ADAPTOR
VALUES MEASURED WITH QP DETECTOR USING 9kHz BANDWIDTH

FREQUENCY MHZ	METER RDG. dBuV	QP LIMIT dBuV	AVG RDG dBuV	AVG LIMIT dBuV	NOTES
.150	32.8	66.0		56.0	
.436	26.4	57.1		47.1	
.816	26.3	56.0		46.0	
1.458	26.4	56.0		46.0	
2.369	26.1	56.0		46.0	
4.030	26.6	56.0		46.0	
6.460	26.8	60.0		50.0	
9.663	27.6	60.0		50.0	
12.352	32.9	60.0		50.0	
13.747	31.5	60.0		50.0	
16.589	35.3	60.0		50.0	
17.107	39.0	60.0		50.0	
17.211	39.1	60.0		50.0	
17.572	36.6	60.0		50.0	
20.154	27.5	60.0		50.0	
24.673	25.4	60.0		50.0	
26.883	25.4	60.0		50.0	

Checked BY RICHARD E. KING :

Richard E. King



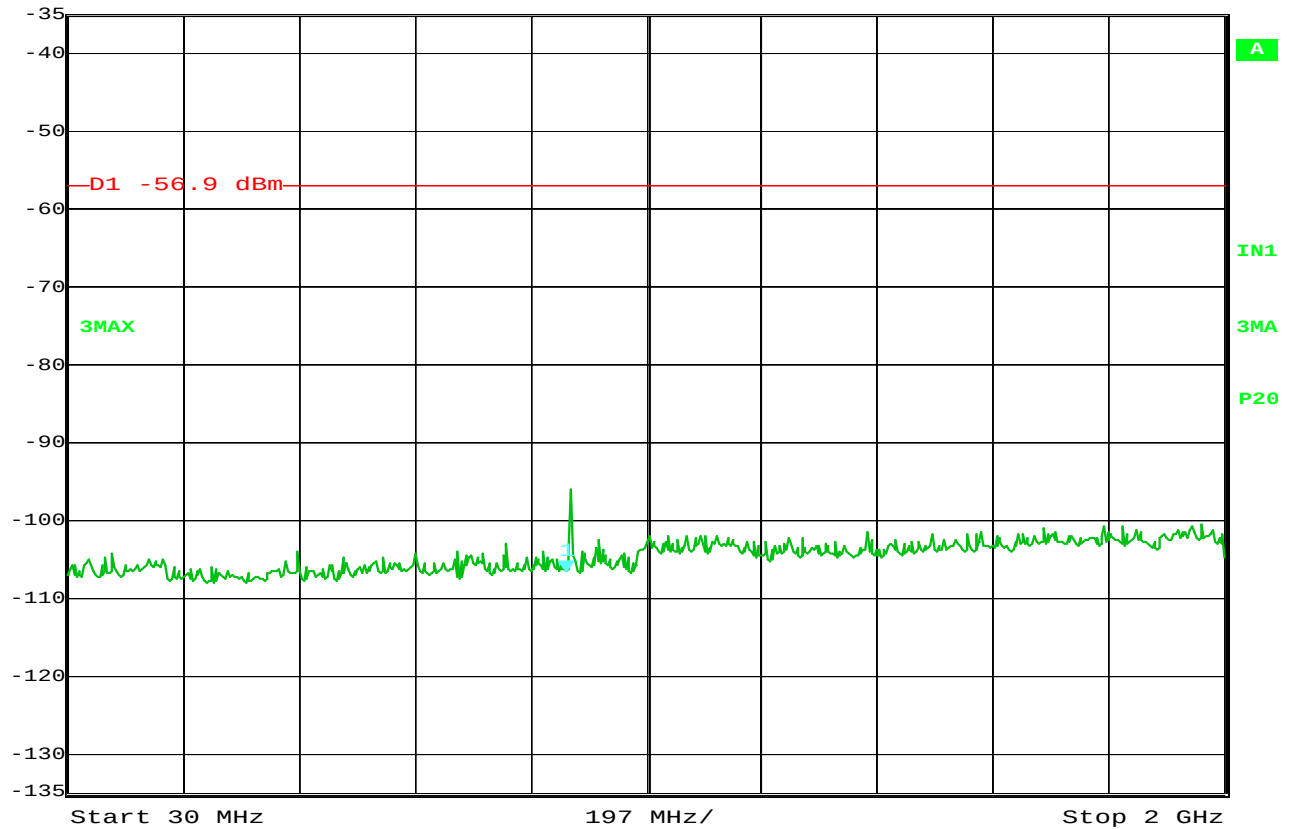
Date: 14.NOV.2009 15:24:21

FCC 15.111 Antenna Conducted Emissions

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Receive
TUNNED FREQ. : 806 MHz
NOTES :



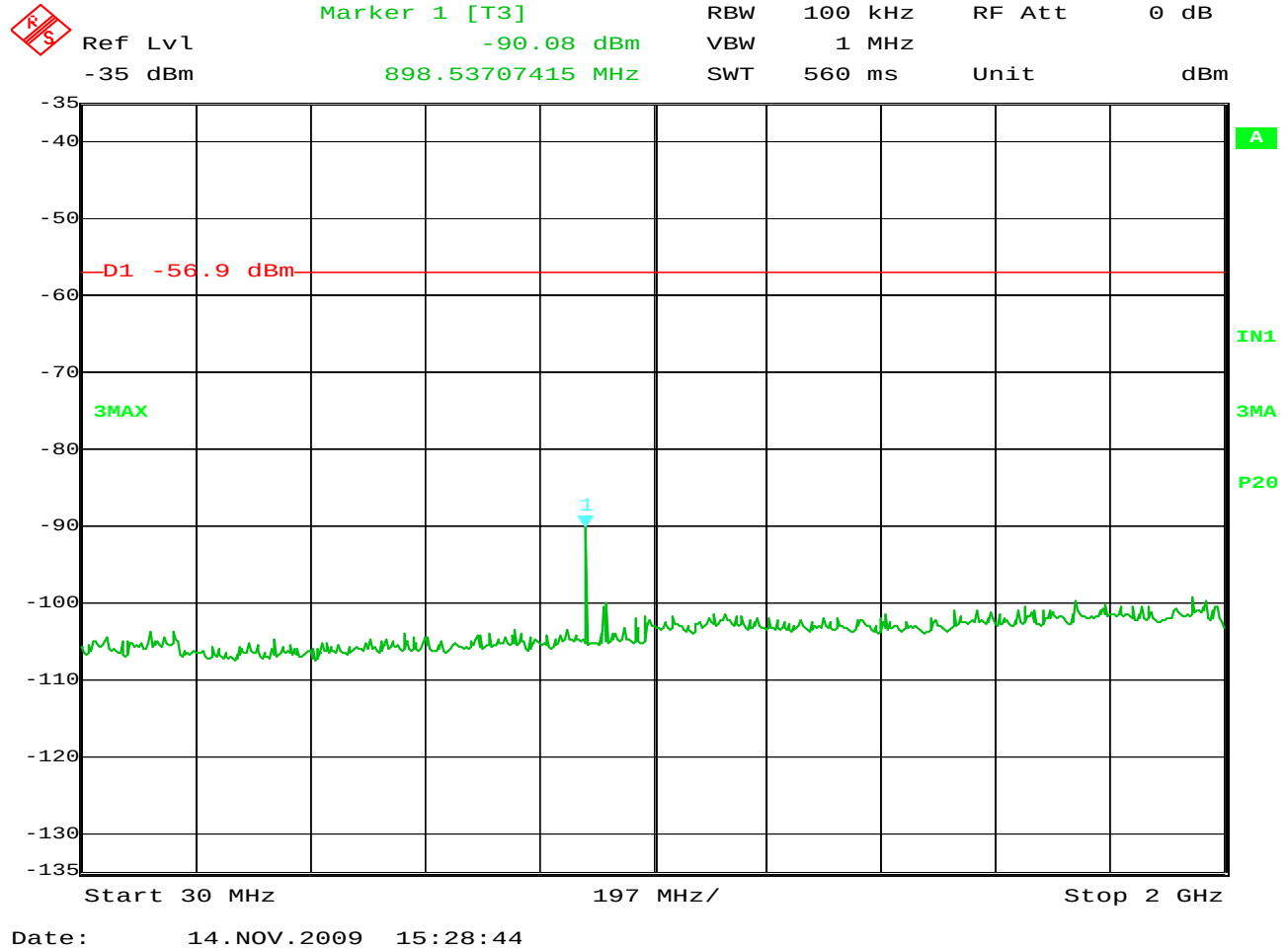
Ref Lvl -35 dBm
Marker 1 [T3] -106.75 dBm
878.79759519 MHz
RBW 100 kHz
VBW 1 MHz
SWT 560 ms
RF Att 0 dB
Unit dBm



Date: 14.NOV.2009 15:27:20

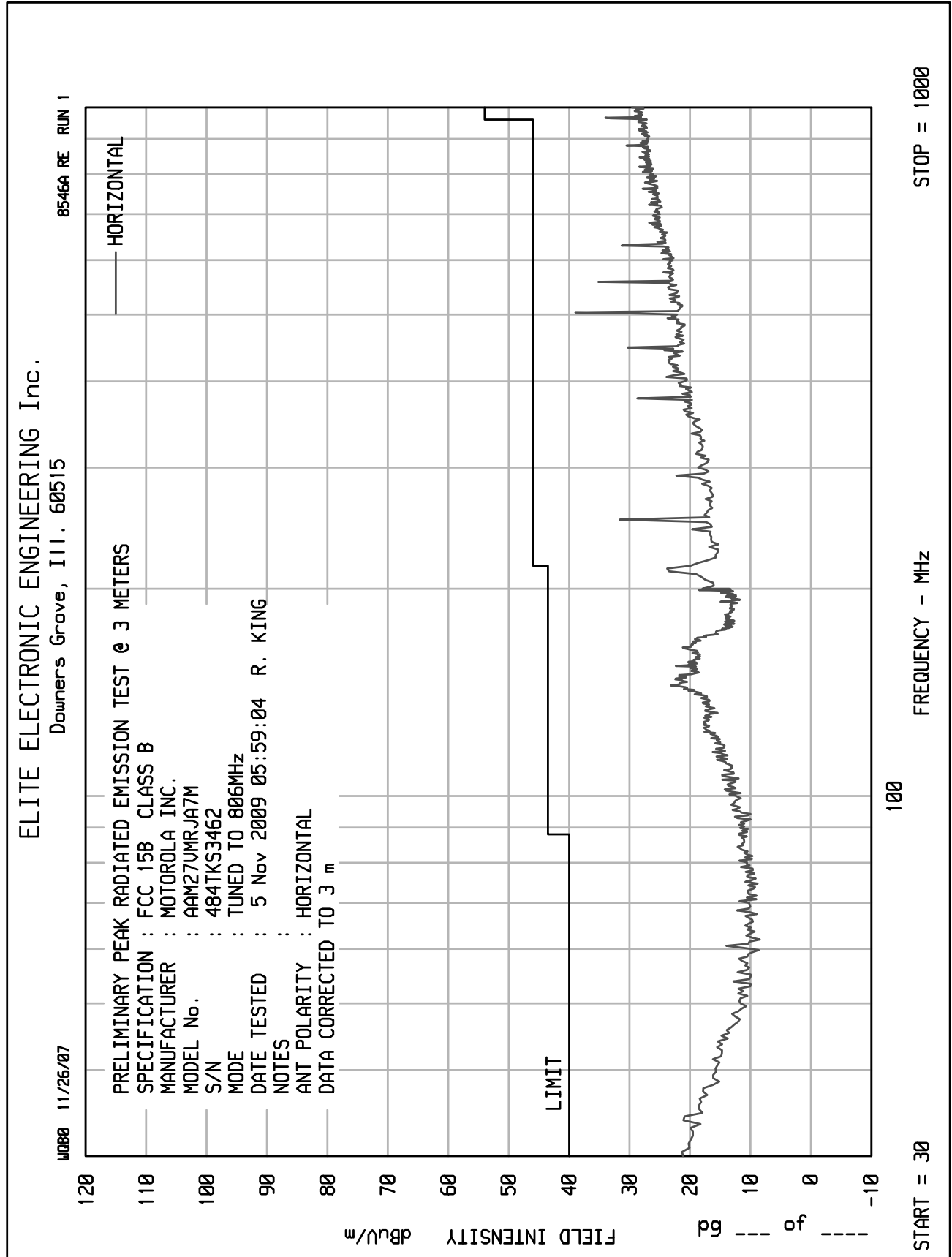
FCC 15.111 Antenna Conducted Emissions

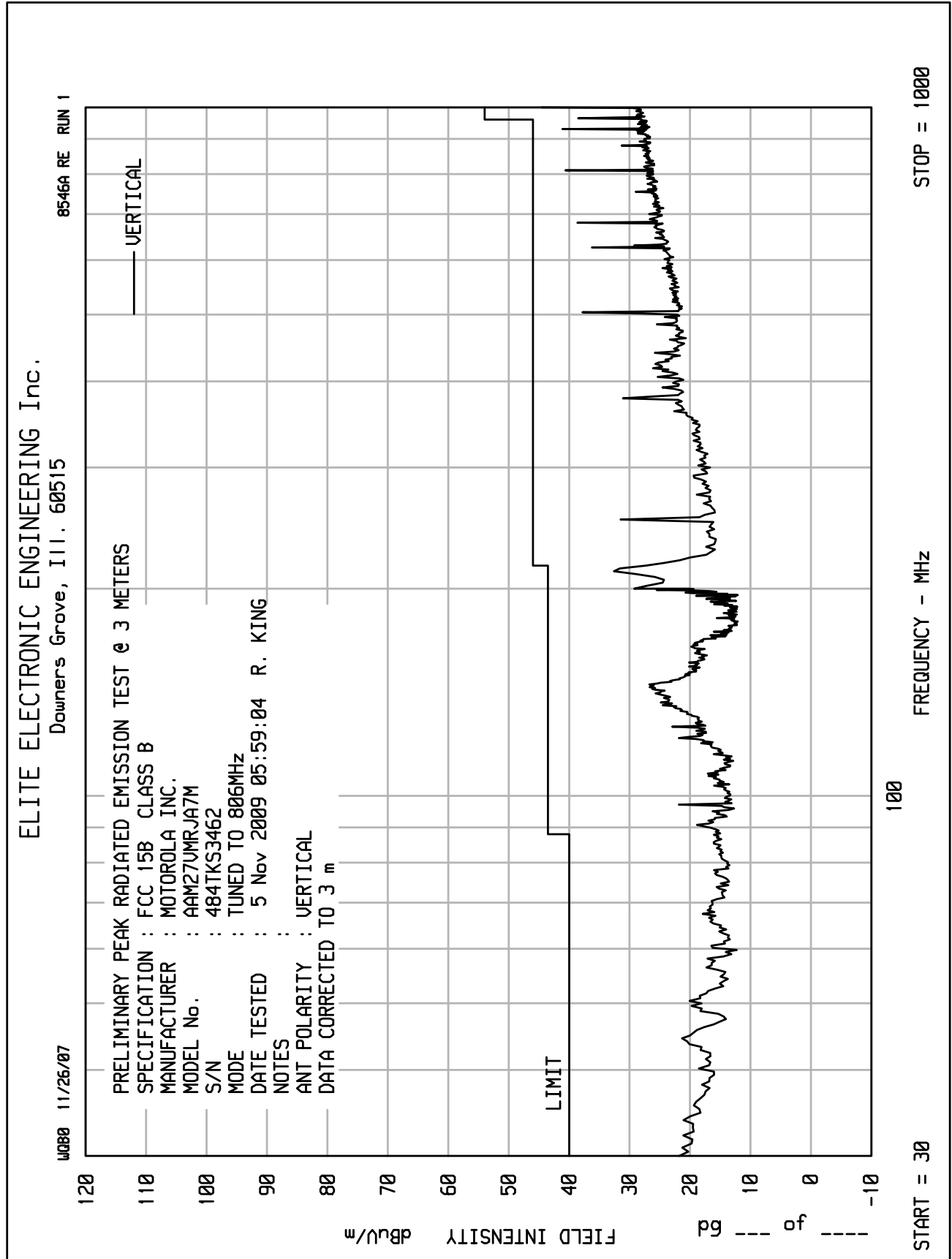
MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Receive
TUNNED FREQ. : 815MHz
NOTES :

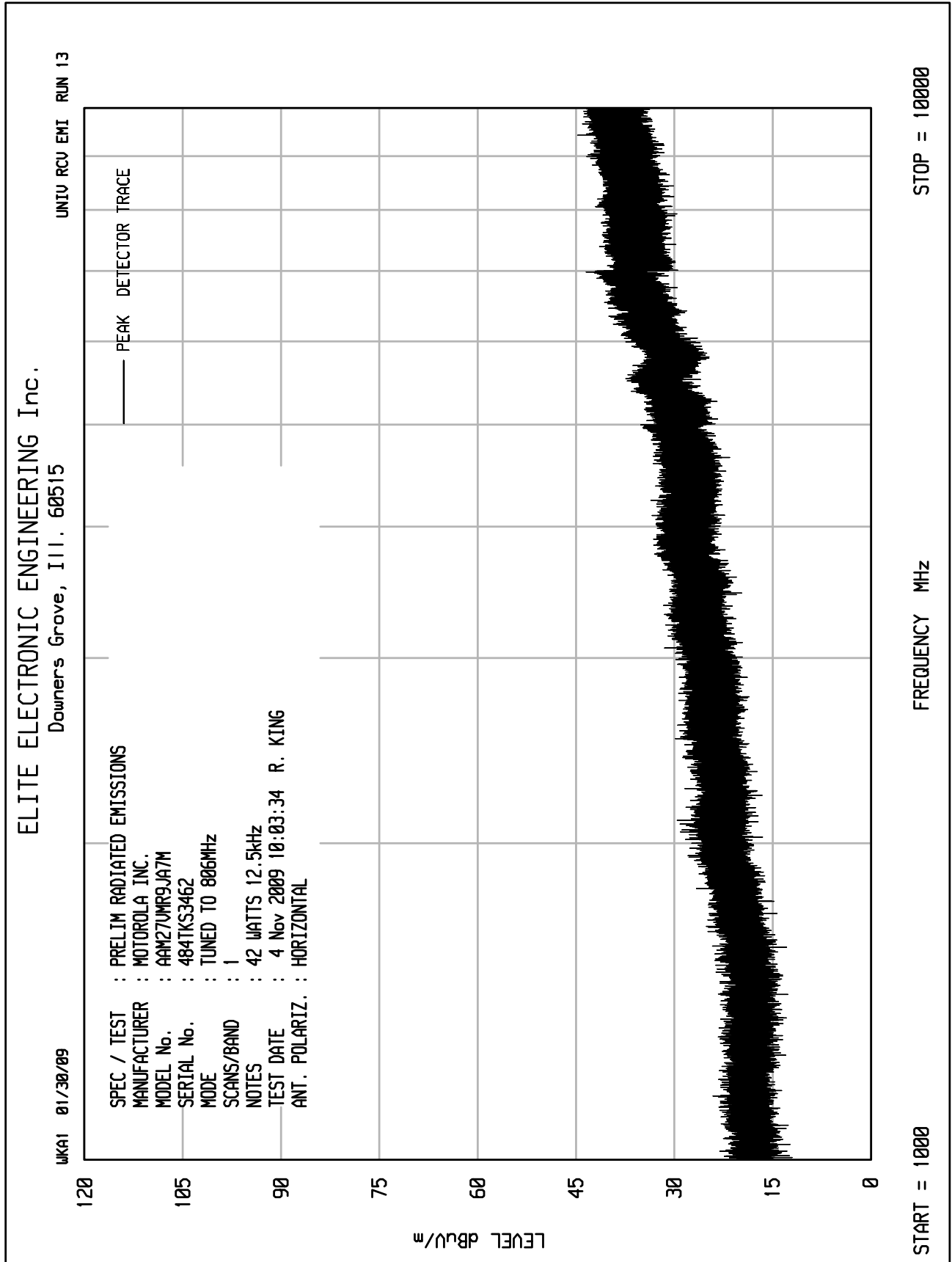


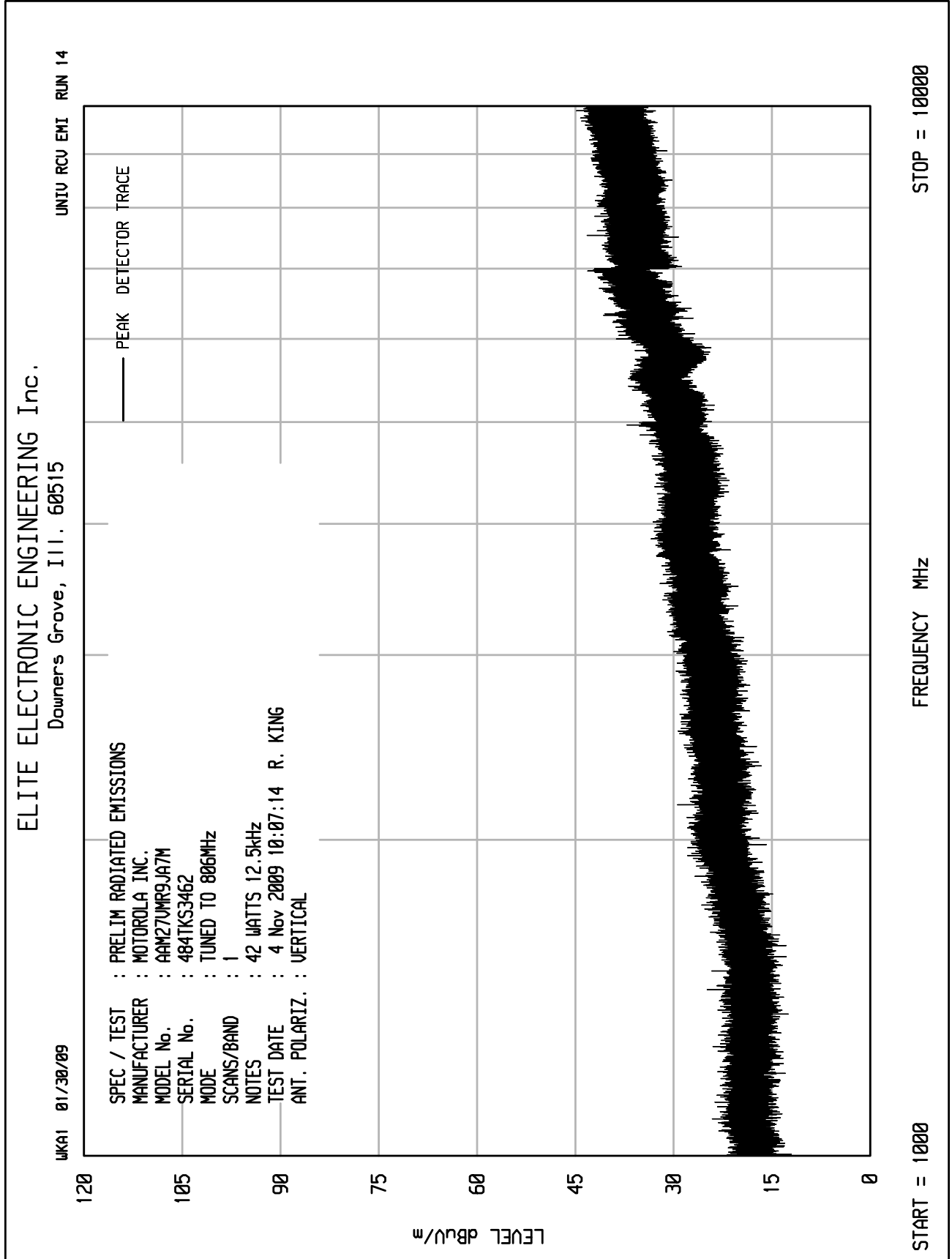
FCC 15.111 Antenna Conducted Emissions

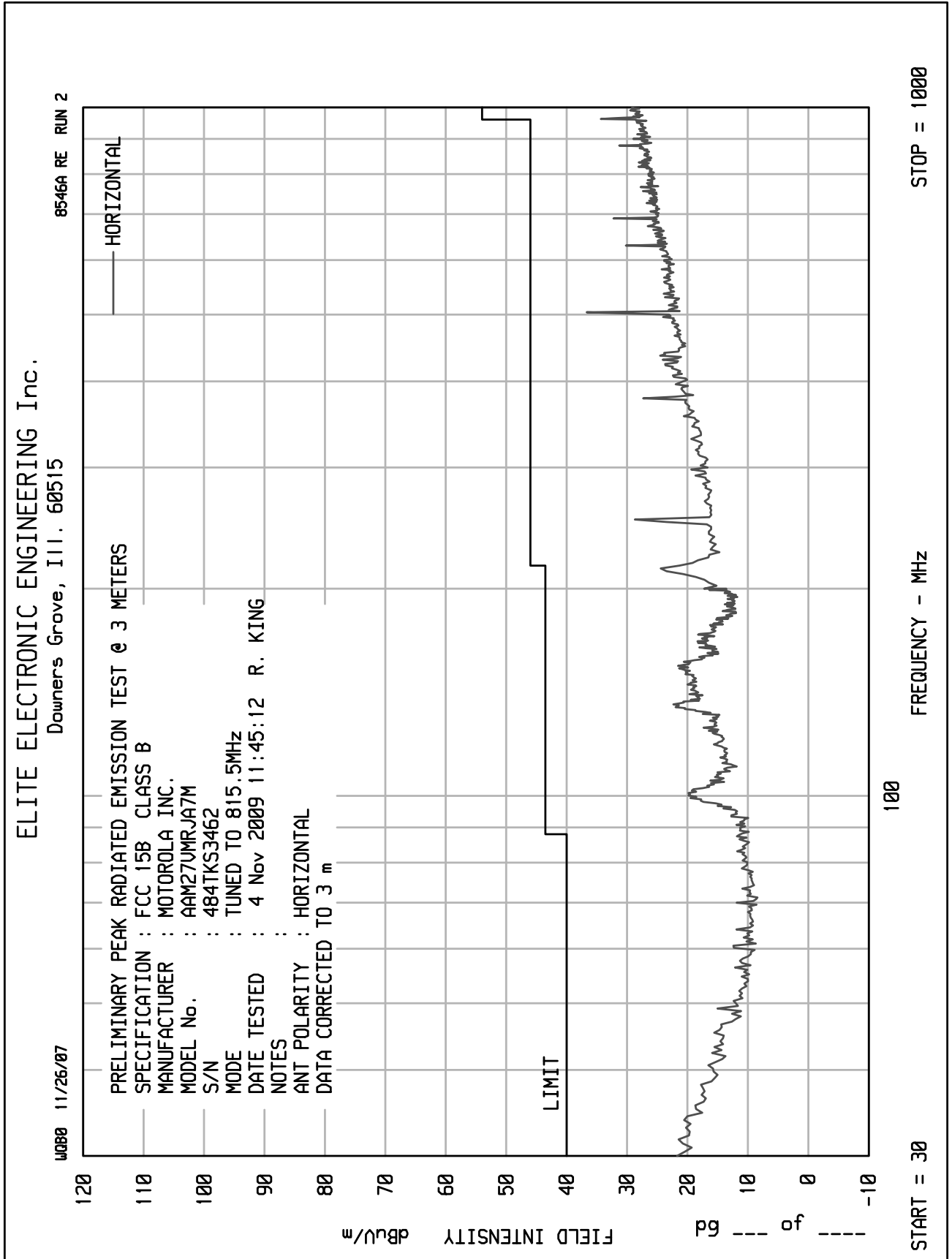
MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Receive
TUNNED FREQ. : 825MHz
NOTES :

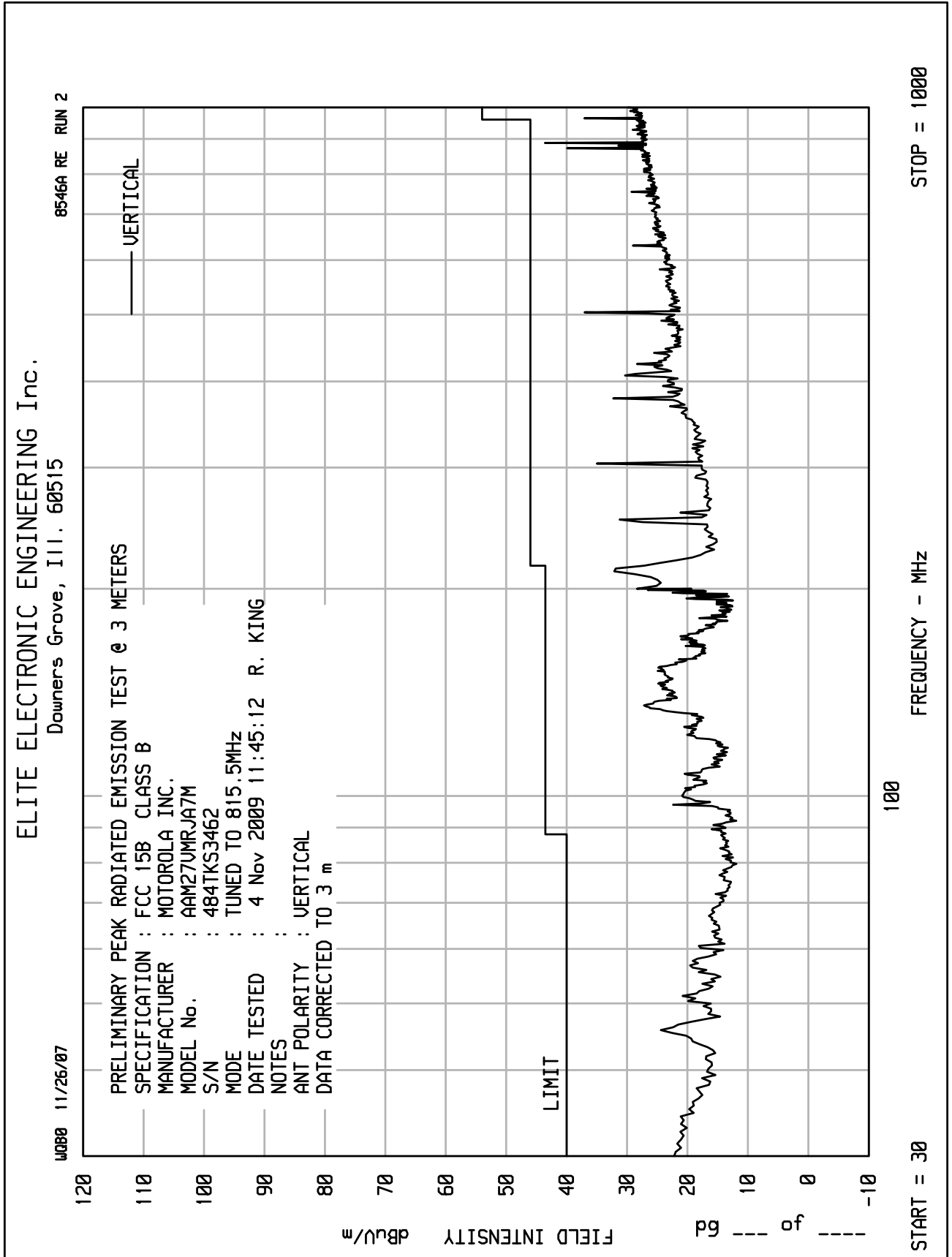


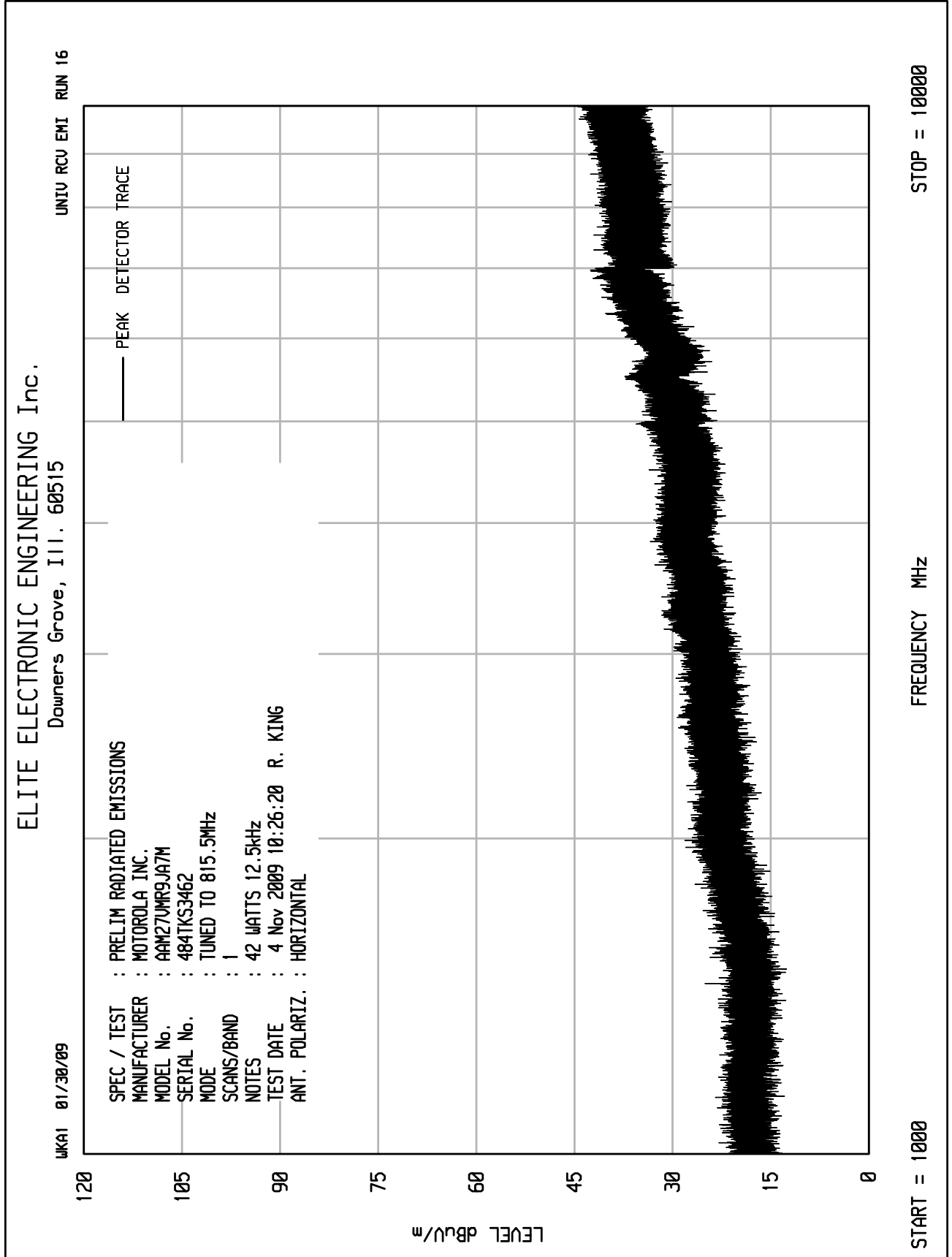


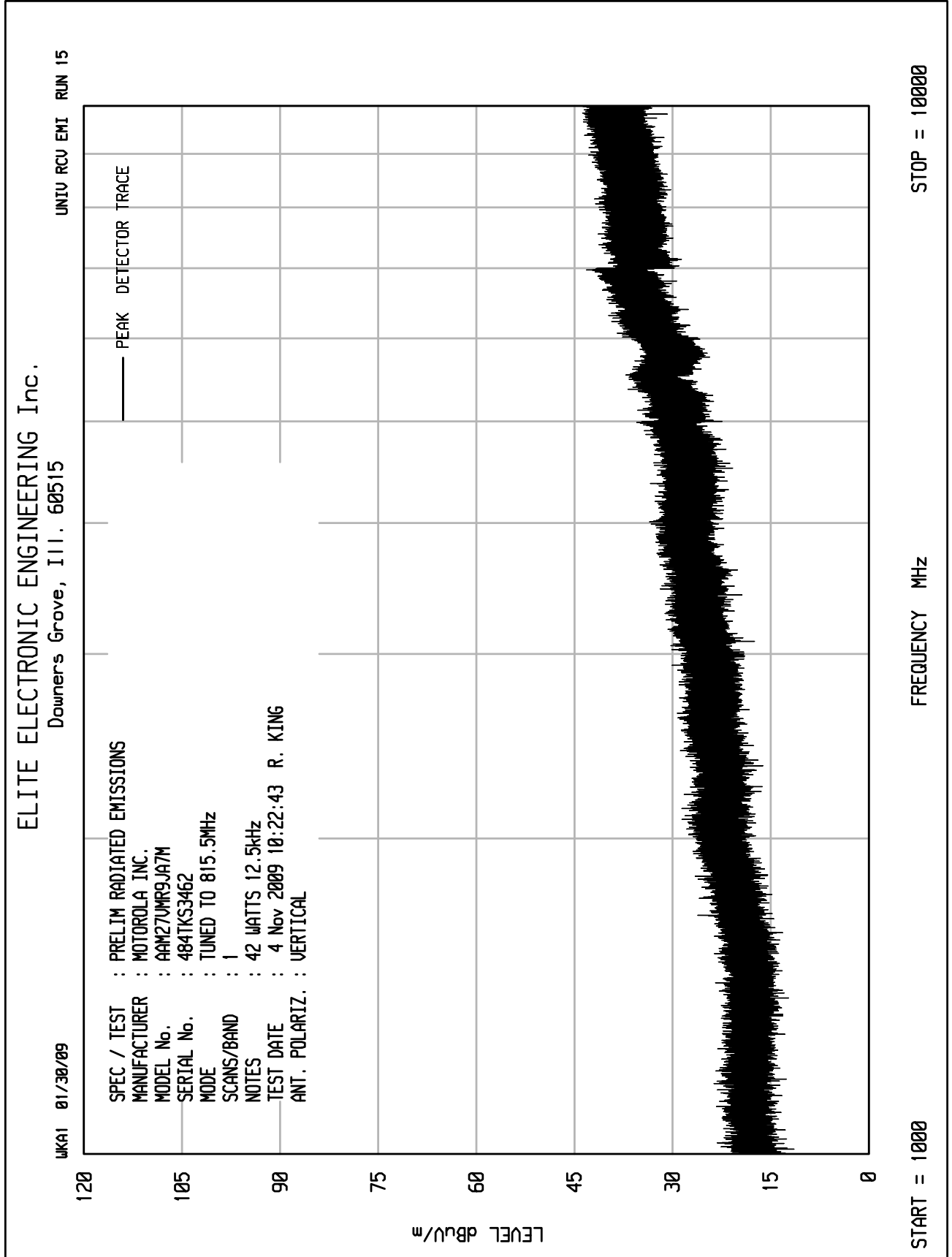


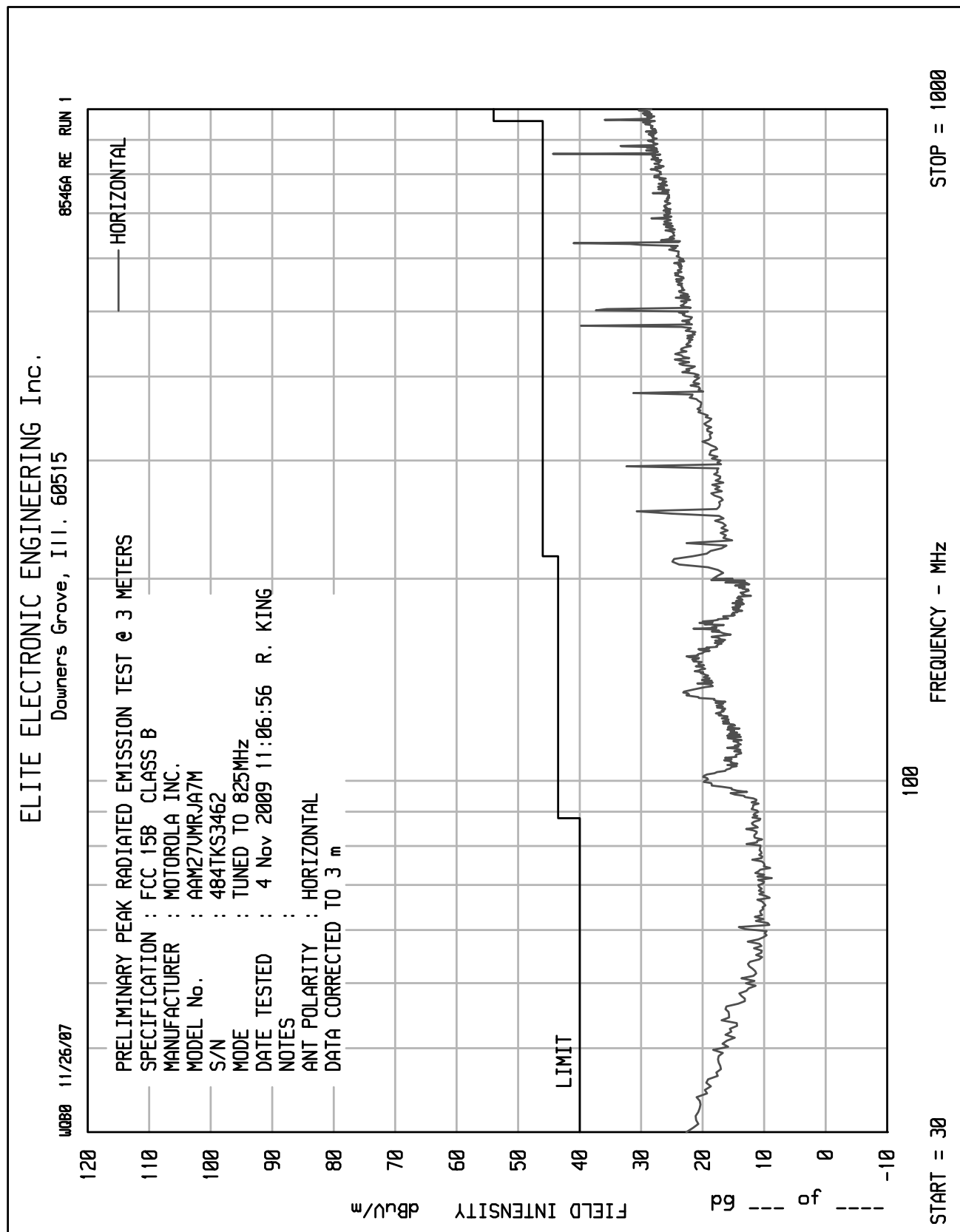


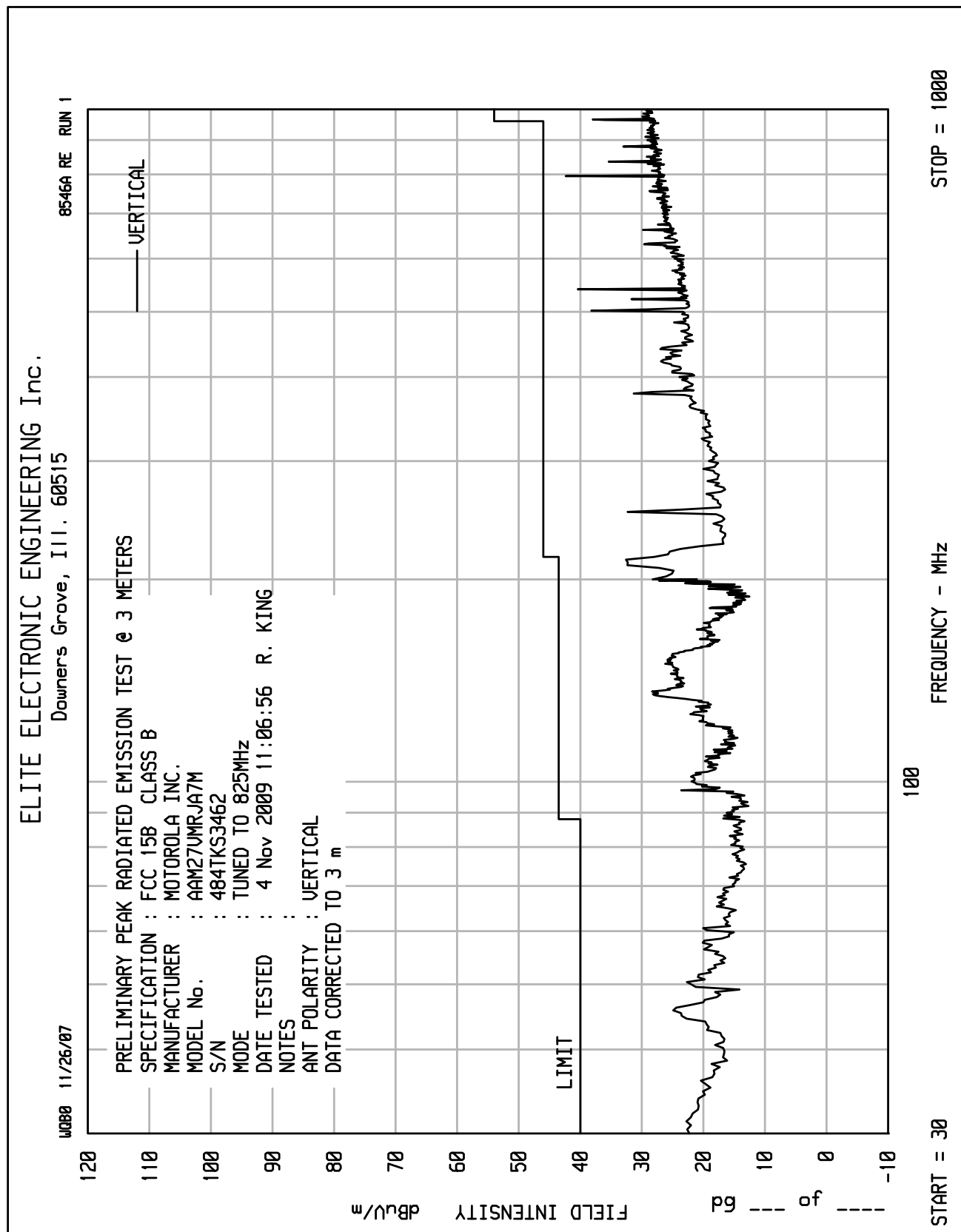


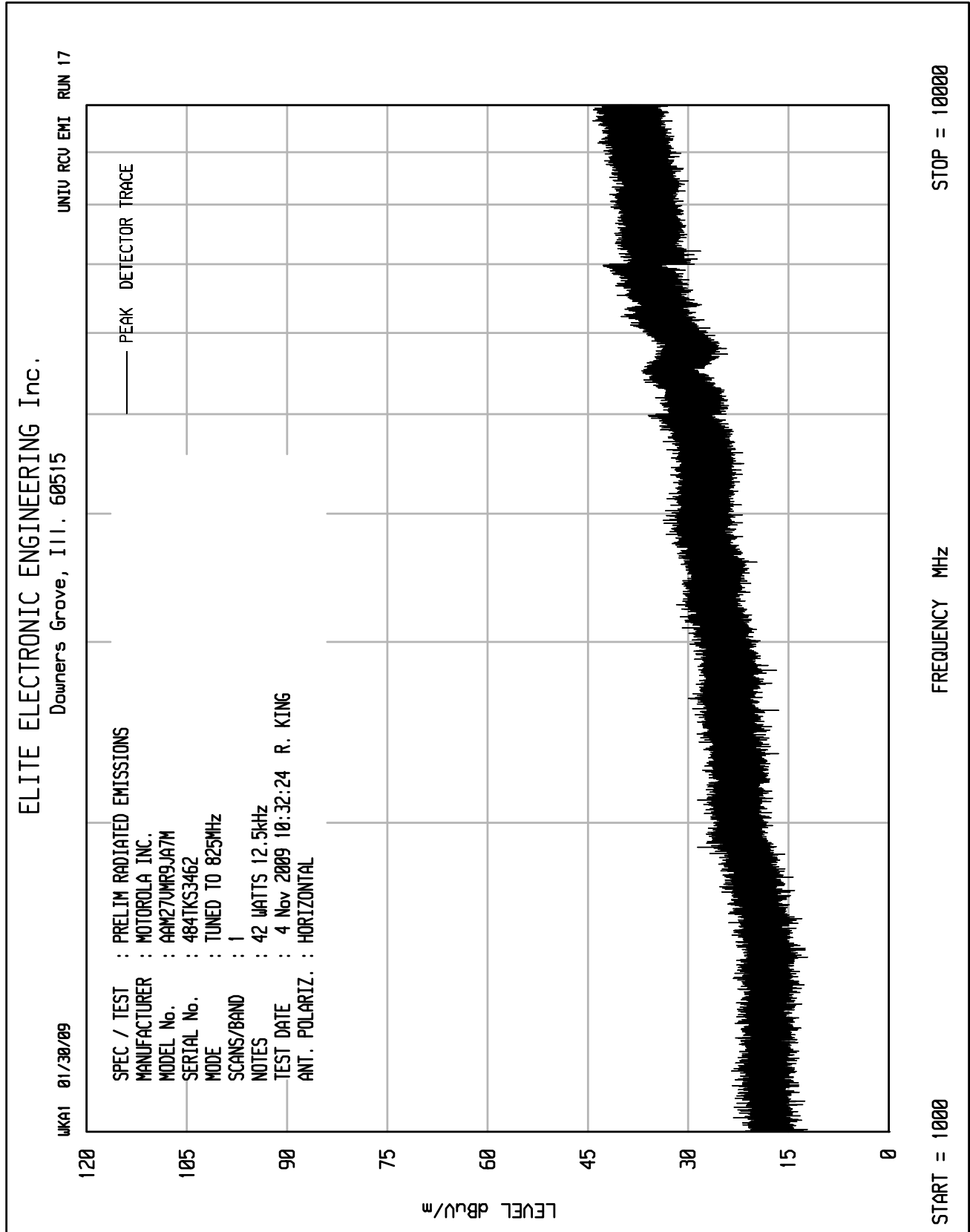


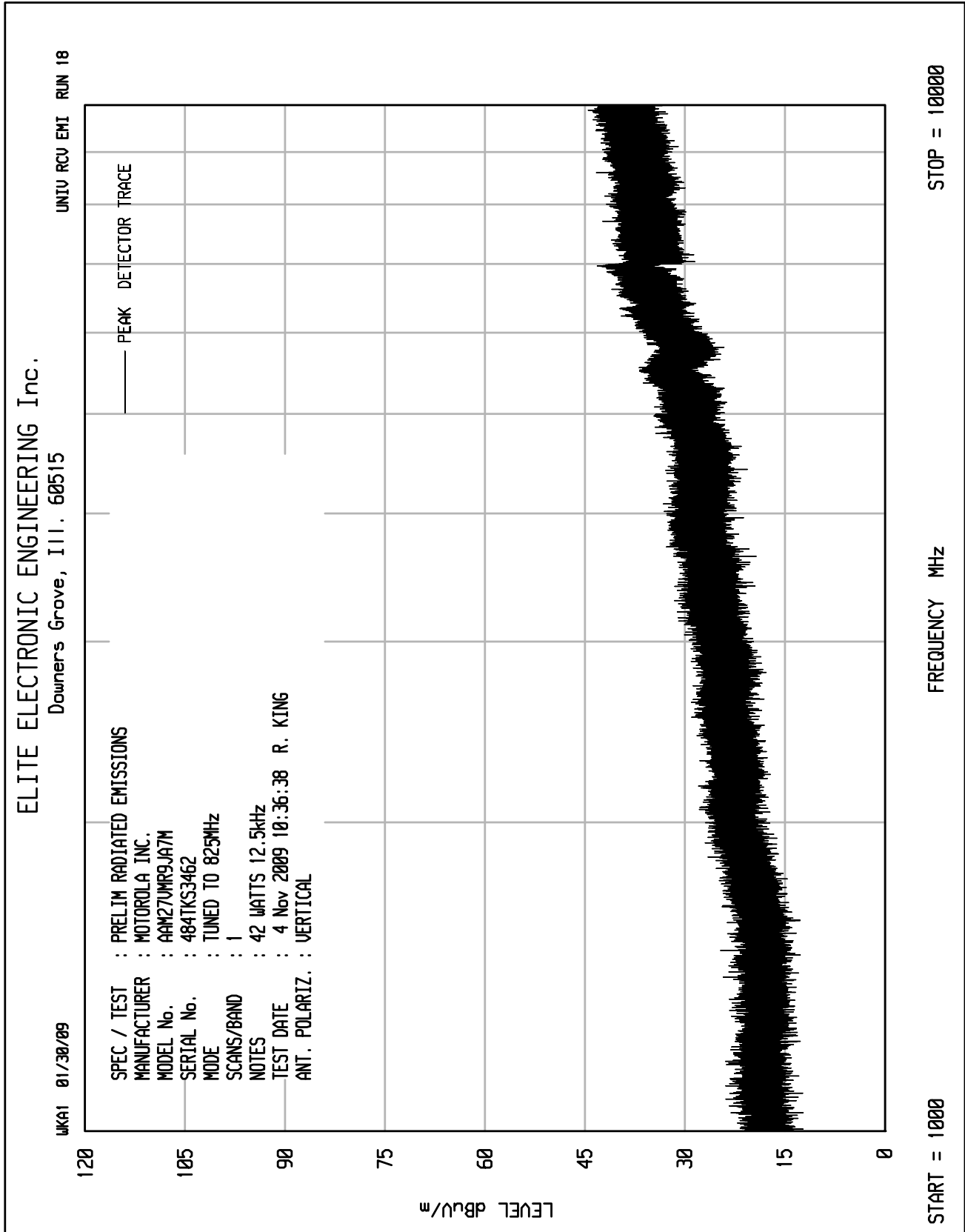














DATA PAGE

RADIATED QP EMISSION MEASUREMENTS in a 3 m SEMI-ANECHOIC ROOM

SPECIFICATION : FCC 15B CLASS B

MANUFACTURER : Motorola Inc.

MODEL : AAM27VMR9JA7M

SERIAL NO. : 484TKS3462

SPECIFICATION : FCC-15B Spurious Radiated Emissions

DATE : November 4, 2009

NOTES : Tuned to 806MHz

TEST DISTANCE : 3 m (DATA EXTRAPOLATED TO 3 m)

FREQUENCY MHZ	QP READING dBuV	ANT FAC dB	CBL FAC dB	EXT ATTN dB	DIST FAC dB	TOTAL dBuV/m	QP LIMIT dBuV/m	AZ deg	ANT HT cm	POLAR
66.20	5.9	6.7	.8	0.0	0.0	13.4	40.0	315	200	V
96.53	10.5	9.1	1.0	0.0	0.0	20.6	43.5	135	120	V
120.66	6.5	12.6	1.0	0.0	0.0	20.1	43.5	45	120	V
142.79	9.5	12.2	1.0	0.0	0.0	22.7	43.5	180	120	V
143.08	9.4	12.2	1.0	0.0	0.0	22.6	43.5	180	120	V
166.90	.7	10.5	1.0	0.0	0.0	12.1	43.5	90	120	H
210.94	20.6	11.0	1.1	0.0	0.0	32.7	43.5	315	340	V
360.00	2.4	15.7	1.5	0.0	0.0	19.6	46.0	135	120	V
375.01	15.1	16.0	1.5	0.0	0.0	32.6	46.0	180	200	V
500.01	18.8	18.4	1.8	0.0	0.0	39.0	46.0	225	200	H
683.73	-5.7	20.5	2.2	0.0	0.0	17.0	46.0	225	120	V
750.02	4.3	21.0	2.4	0.0	0.0	27.7	46.0	0	120	V
813.55	-6.3	21.7	2.5	0.0	0.0	17.9	46.0	135	340	V
939.75	-5.9	22.7	2.5	0.0	0.0	19.3	46.0	90	340	V

Checked BY RICHARD E. KING :

Richard E. King



DATA PAGE

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
SPECIFICATION : FCC-15B Spurious Radiated Emissions
DATE : November 4, 2009
NOTES : Tuned to 806 MHz
: Test Distance is 3 meters

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
732.7	H	5.8	*	2.2	20.5	28.4	26.4	200	-17.6
732.7	V	5.2	*	2.2	20.5	27.8	24.6	200	-18.2
1465.3	H	16.7	*	3.1	26.0	45.8	194.7	500	-8.2
1465.3	V	18.0	*	3.1	26.0	47.0	225.0	500	-6.9
2198.0	H	16.1	*	3.7	28.7	48.5	264.7	500	-5.5
2198.0	V	15.4	*	3.7	28.7	47.8	245.1	500	-6.2
2930.6	H	15.5	*	4.0	30.9	50.5	333.7	500	-3.5
2930.6	V	16.6	*	4.0	30.9	51.5	377.4	500	-2.4
3663.3	H	15.1	*	4.7	33.2	53.0	448.5	500	-0.9
3663.3	V	14.6	*	4.7	33.2	52.5	421.0	500	-1.5
4395.9	H	14.6	*	5.4	33.6	53.5	474.7	500	-0.5
4395.9	V	13.7	*	5.4	33.6	52.7	429.4	500	-1.3

V - Vertical

H - Horizontal

Checked BY RICHARD E. KING :

Richard E. King



DATA PAGE

RADIATED QP EMISSION MEASUREMENTS in a 3 m SEMI-ANECHOIC ROOM

SPECIFICATION : FCC 15B CLASS B

MANUFACTURER : Motorola Inc.

MODEL : AAM27VMR9JA7M

SERIAL NO. : 484TKS3462

SPECIFICATION : FCC-15B Spurious Radiated Emissions

DATE : November 4, 2009

NOTES : Tuned to 815.5MHz

TEST DISTANCE : 3 m (DATA EXTRAPOLATED TO 3 m)

FREQUENCY MHz	QP READING dBuV	ANT FAC dB	CBL FAC dB	EXT ATTN dB	DIST FAC dB	TOTAL dBuV/m	QP LIMIT dBuV/m	AZ deg	ANT HT cm	POLAR
66.20	5.9	6.7	.8	0.0	0.0	13.4	40.0	315	200	V
96.53	10.5	9.1	1.0	0.0	0.0	20.6	43.5	135	120	V
120.66	6.5	12.6	1.0	0.0	0.0	20.1	43.5	45	120	V
142.79	9.5	12.2	1.0	0.0	0.0	22.7	43.5	180	120	V
143.08	9.4	12.2	1.0	0.0	0.0	22.6	43.5	180	120	V
166.90	.7	10.5	1.0	0.0	0.0	12.1	43.5	90	120	H
210.94	20.6	11.0	1.1	0.0	0.0	32.7	43.5	315	340	V
360.00	2.4	15.7	1.5	0.0	0.0	19.6	46.0	135	120	V
375.01	15.1	16.0	1.5	0.0	0.0	32.6	46.0	180	200	V
500.01	18.8	18.4	1.8	0.0	0.0	39.0	46.0	225	200	H
683.73	-5.7	20.5	2.2	0.0	0.0	17.0	46.0	225	120	V
750.02	4.3	21.0	2.4	0.0	0.0	27.7	46.0	0	120	V
813.55	-6.3	21.7	2.5	0.0	0.0	17.9	46.0	135	340	V
939.75	-5.9	22.7	2.5	0.0	0.0	19.3	46.0	90	340	V

Checked BY RICHARD E. King :

Richard E. King



DATA PAGE

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
SPECIFICATION : FCC-15B Spurious Radiated Emissions
DATE : November 4, 2009
NOTES : Tuned to 815.5 MHz
: Test Distance is 3 meters

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
742.2	H	5.8	*	2.2	20.6	28.6	26.8	200	-17.5
742.2	V	5.2	*	2.2	20.6	28.0	25.0	200	-18.1
1484.3	H	16.6	*	3.1	26.0	45.7	193.6	500	-8.2
1484.3	V	17.9	*	3.1	26.0	47.0	223.9	500	-7.0
2226.5	H	16.0	*	3.7	28.8	48.4	264.2	500	-5.5
2226.5	V	15.3	*	3.7	28.8	47.8	244.6	500	-6.2
2968.6	H	15.4	*	4.0	31.1	50.5	335.2	500	-3.5
2968.6	V	16.5	*	4.0	31.1	51.6	379.2	500	-2.4
3710.8	H	15.0	*	4.8	33.3	53.1	451.7	500	-0.9
3710.8	V	14.5	*	4.8	33.3	52.5	424.0	500	-1.4
4452.9	H	14.5	*	5.4	33.5	53.4	468.7	500	-0.6
4452.9	V	13.6	*	5.4	33.5	52.5	424.0	500	-1.4

V - Vertical

H - Horizontal

Checked BY RICHARD E. KING :

Richard E. King



DATA PAGE

RADIATED QP EMISSION MEASUREMENTS in a 3 m SEMI-ANECHOIC ROOM

SPECIFICATION : FCC 15B CLASS B

MANUFACTURER : Motorola Inc.

MODEL : AAM27VMR9JA7M

SERIAL NO. : 484TKS3462

SPECIFICATION : FCC-15B Spurious Radiated Emissions

DATE : November 4, 2009

NOTES : Tuned to 825MHz

TEST DISTANCE : 3 m (DATA EXTRAPOLATED TO 3 m)

FREQUENCY MHz	QP READING dBuV	ANT FAC dB	CBL FAC dB	EXT ATTN dB	DIST FAC dB	TOTAL dBuV/m	QP LIMIT dBuV/m	AZ deg	ANT HT cm	POLAR
45.90	7.3	11.0	.6	0.0	0.0	18.9	40.0	-0	120	V
57.48	8.9	6.2	.7	0.0	0.0	15.8	40.0	45	200	V
96.48	10.2	9.1	1.0	0.0	0.0	20.3	43.5	135	120	V
100.52	7.4	9.8	1.0	0.0	0.0	18.2	43.5	90	120	V
134.50	9.6	12.6	1.0	0.0	0.0	23.3	43.5	45	120	V
150.79	8.5	11.8	1.0	0.0	0.0	21.3	43.5	45	120	V
166.89	1.4	10.5	1.0	0.0	0.0	12.9	43.5	45	340	H
212.81	19.3	11.1	1.1	0.0	0.0	31.5	43.5	0	340	V
295.59	-6.5	13.9	1.5	0.0	0.0	9.0	46.0	225	120	H
375.01	13.2	16.0	1.5	0.0	0.0	30.7	46.0	135	200	V
535.35	-6.6	18.9	1.9	0.0	0.0	14.2	46.0	135	340	V
625.02	1.8	20.0	2.1	0.0	0.0	23.9	46.0	180	340	H
794.52	-6.2	21.5	2.5	0.0	0.0	17.8	46.0	90	340	V
860.13	-6.4	22.4	2.5	0.0	0.0	18.5	46.0	135	120	H
960.02	11.3	22.9	2.5	0.0	0.0	36.6	46.0	315	120	V

Checked BY RICHARD E. King :Richard E. King



DATA PAGE

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
SPECIFICATION : FCC-15B Spurious Radiated Emissions
DATE : November 4, 2009
NOTES : Tuned to 825 MHz
: Test Distance is 3 meters

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
751.7	H	5.5	*	2.2	20.7	28.4	26.4	200	-17.6
751.7	V	5.4	*	2.2	20.7	28.3	26.1	200	-17.7
1503.3	H	16.4	*	3.1	26.0	45.6	190.9	500	-8.4
1503.3	V	17.7	*	3.1	26.0	46.9	220.7	500	-7.1
2254.0	H	15.8	*	3.7	28.8	48.3	260.9	500	-5.7
2254.0	V	15.1	*	3.7	28.8	47.7	241.5	500	-6.3
3006.6	H	15.2	*	4.1	31.2	50.5	333.8	500	-3.5
3006.6	V	16.3	*	4.1	31.2	51.5	377.5	500	-2.4
3758.3	H	14.8	*	4.8	33.4	53.1	450.6	500	-0.9
3758.3	V	14.3	*	4.8	33.4	52.5	422.9	500	-1.5
4509.9	H	14.3	*	5.5	33.5	53.3	460.7	500	-0.7
4509.9	V	13.4	*	5.5	33.5	52.4	416.8	500	-1.6

V - Vertical

H - Horizontal

Checked BY RICHARD E. King :

Richard E. King



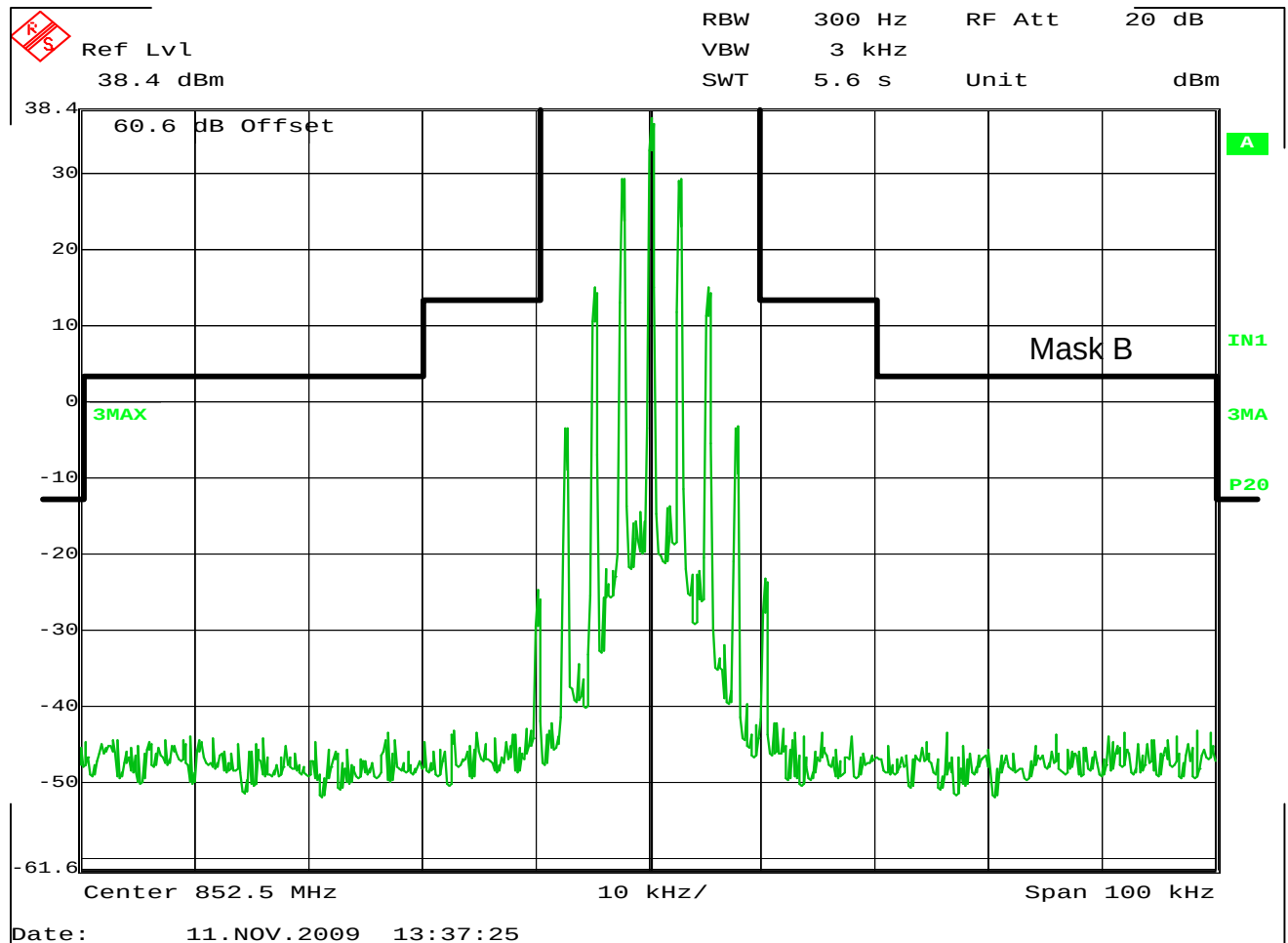
DATA PAGE

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
SPECIFICATION : FCC 90.205 Power Output
DATE : November 2, 2009

Frequency (MHz)	Channel Spacing (kHz)	Measured Output Power (dBm)	Measured Output Power (Watts)	Manufacturer's Rated Power (Watts)	Manufacturer's Rated Power + 20% (Watts)
860.5	12.5	39.12	8.17	10.0	12.0
860.5	25	39.12	8.17	10.0	12.0
860.5	12.5	45.30	33.88	42.0	50.4
860.5	25	45.30	31.88	42.0	50.4

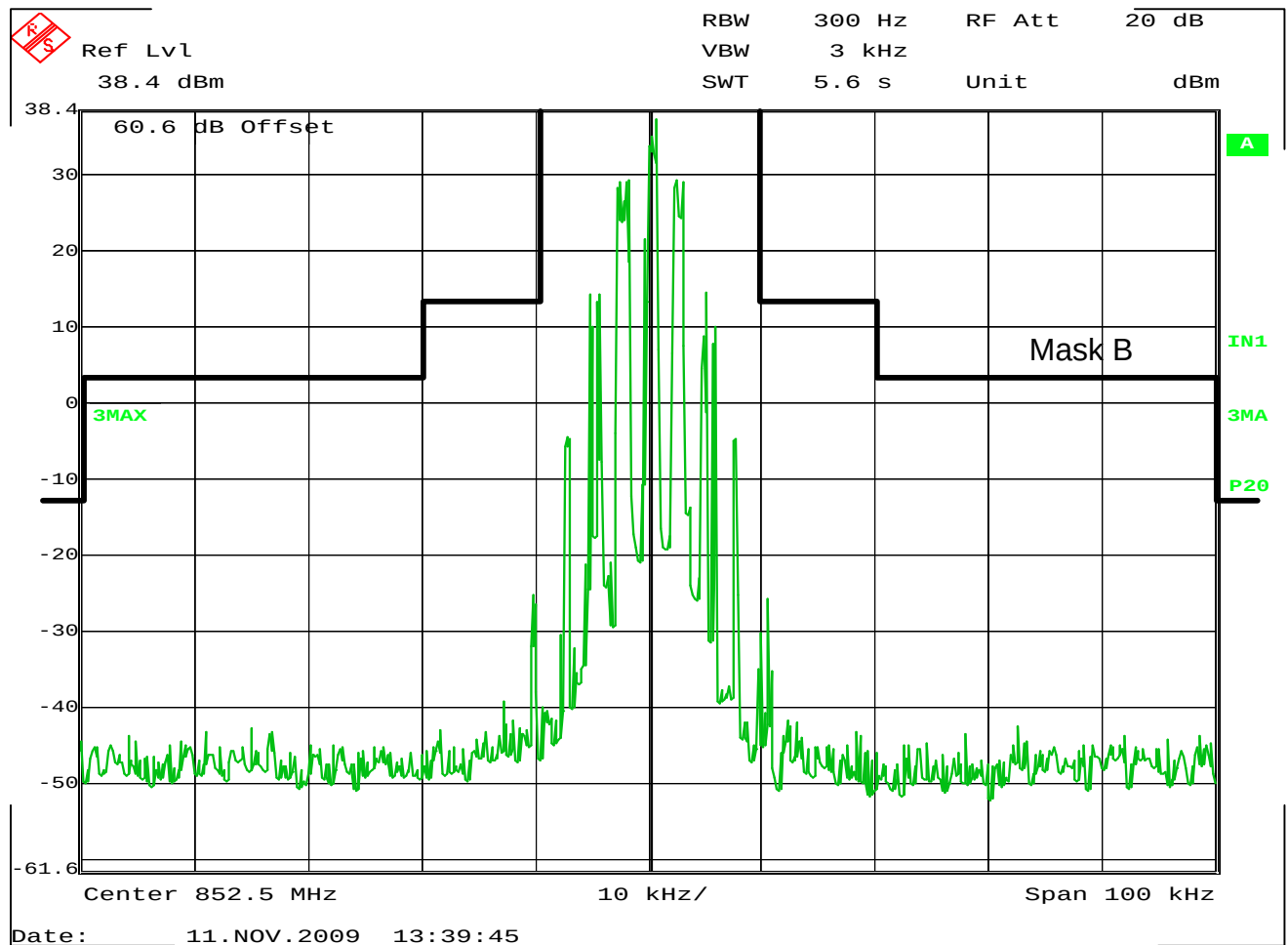
Checked BY RICHARD E. King :

Richard E. King



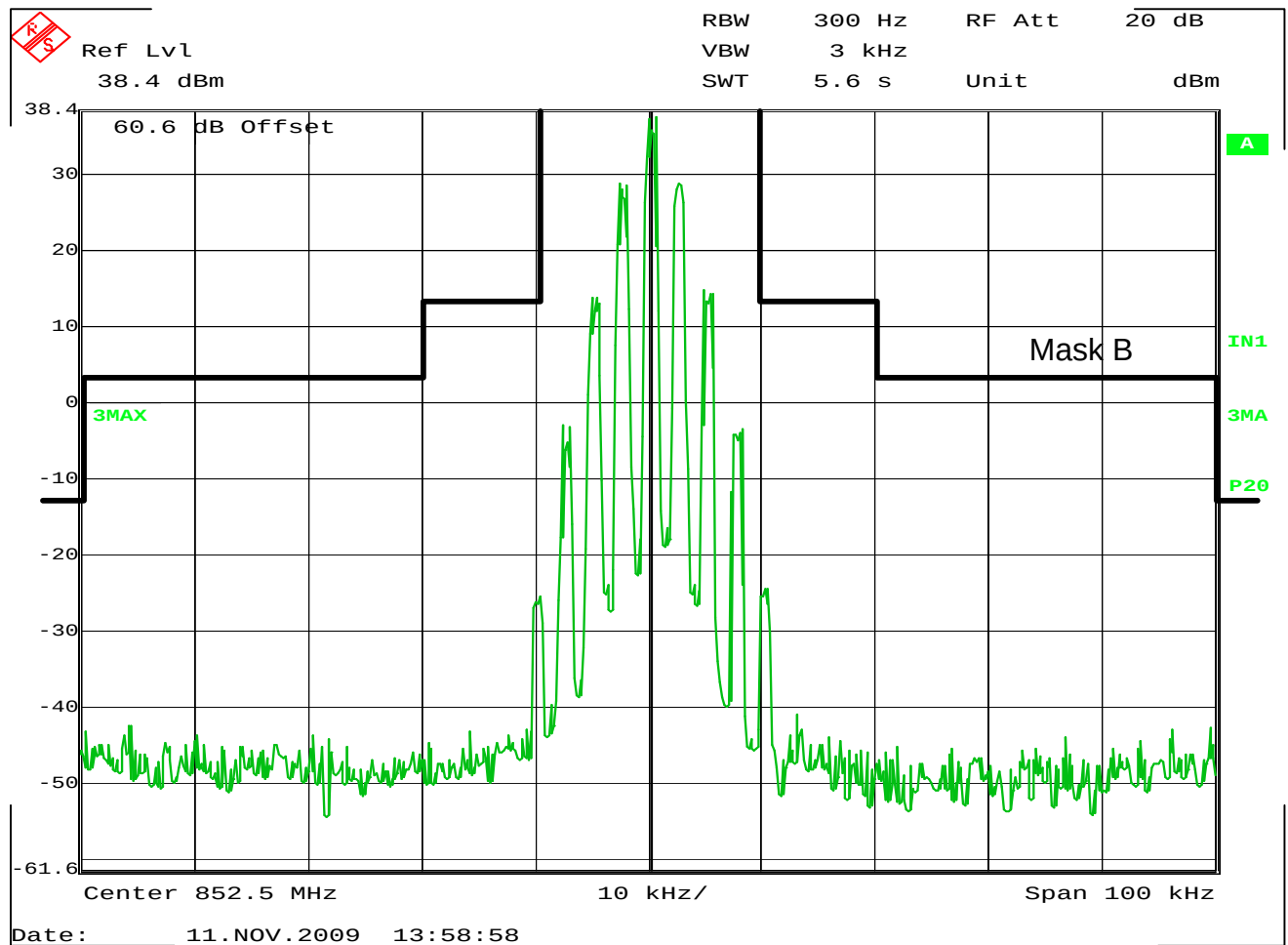
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



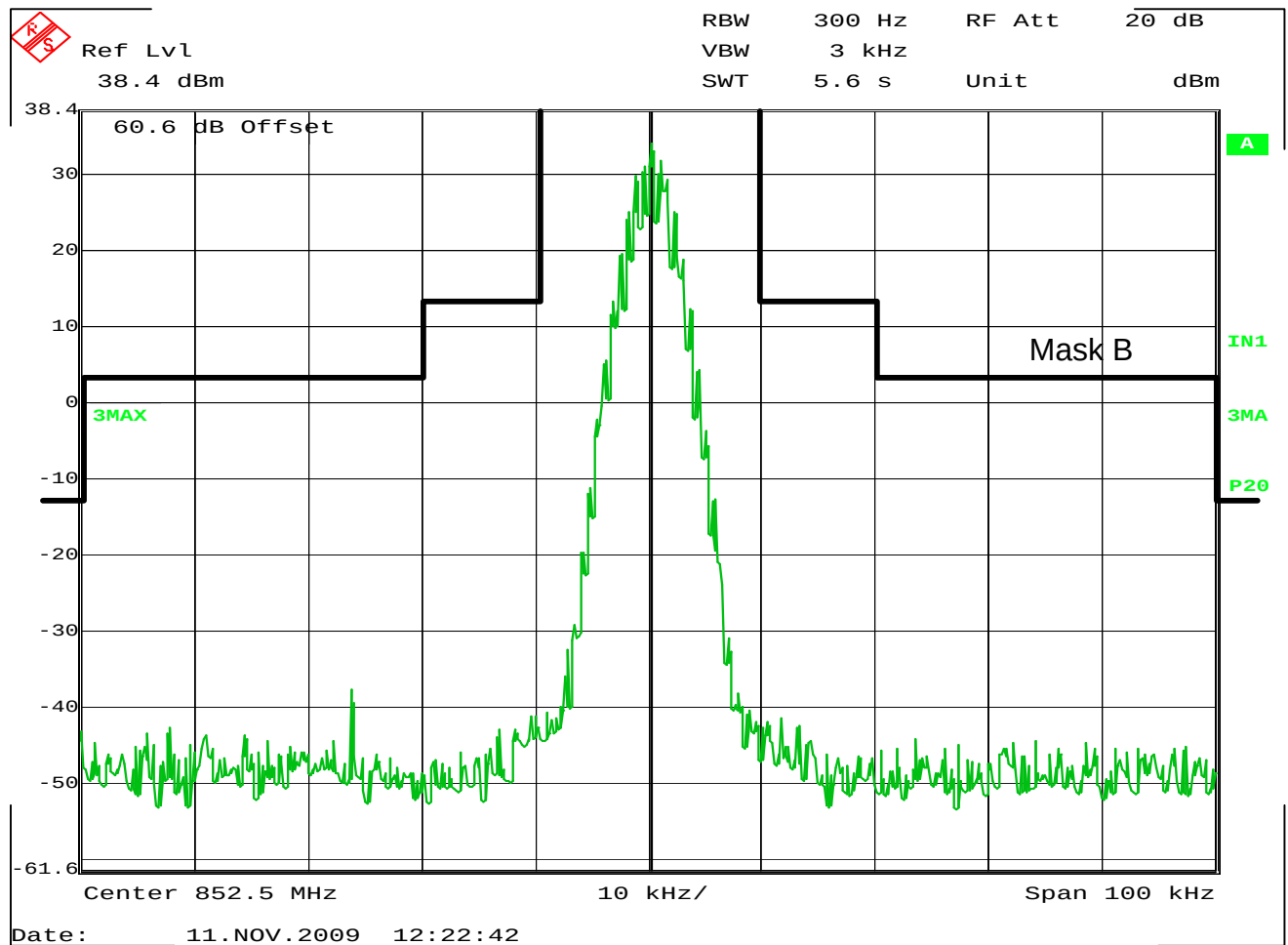
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + DPL



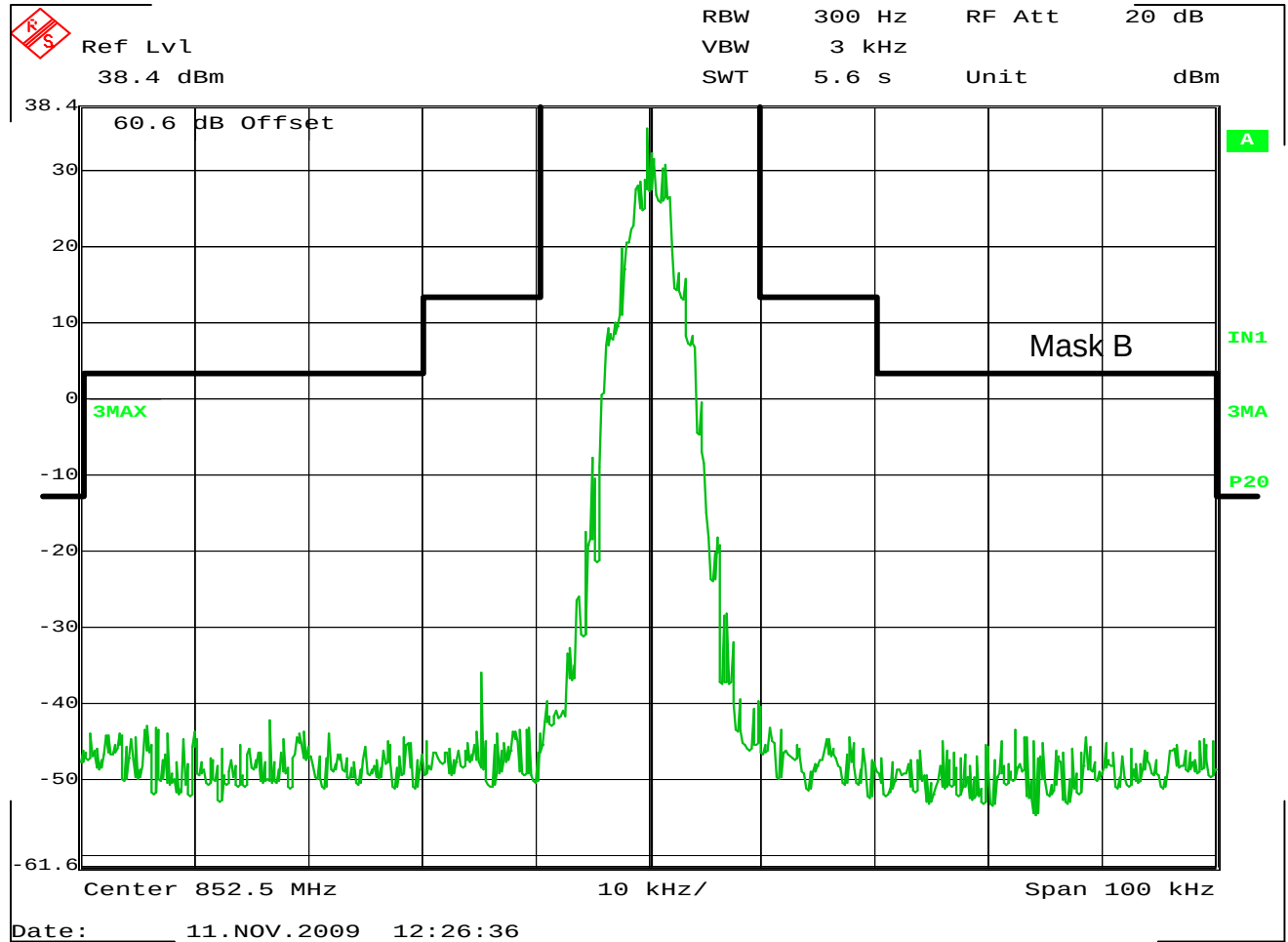
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + TPL



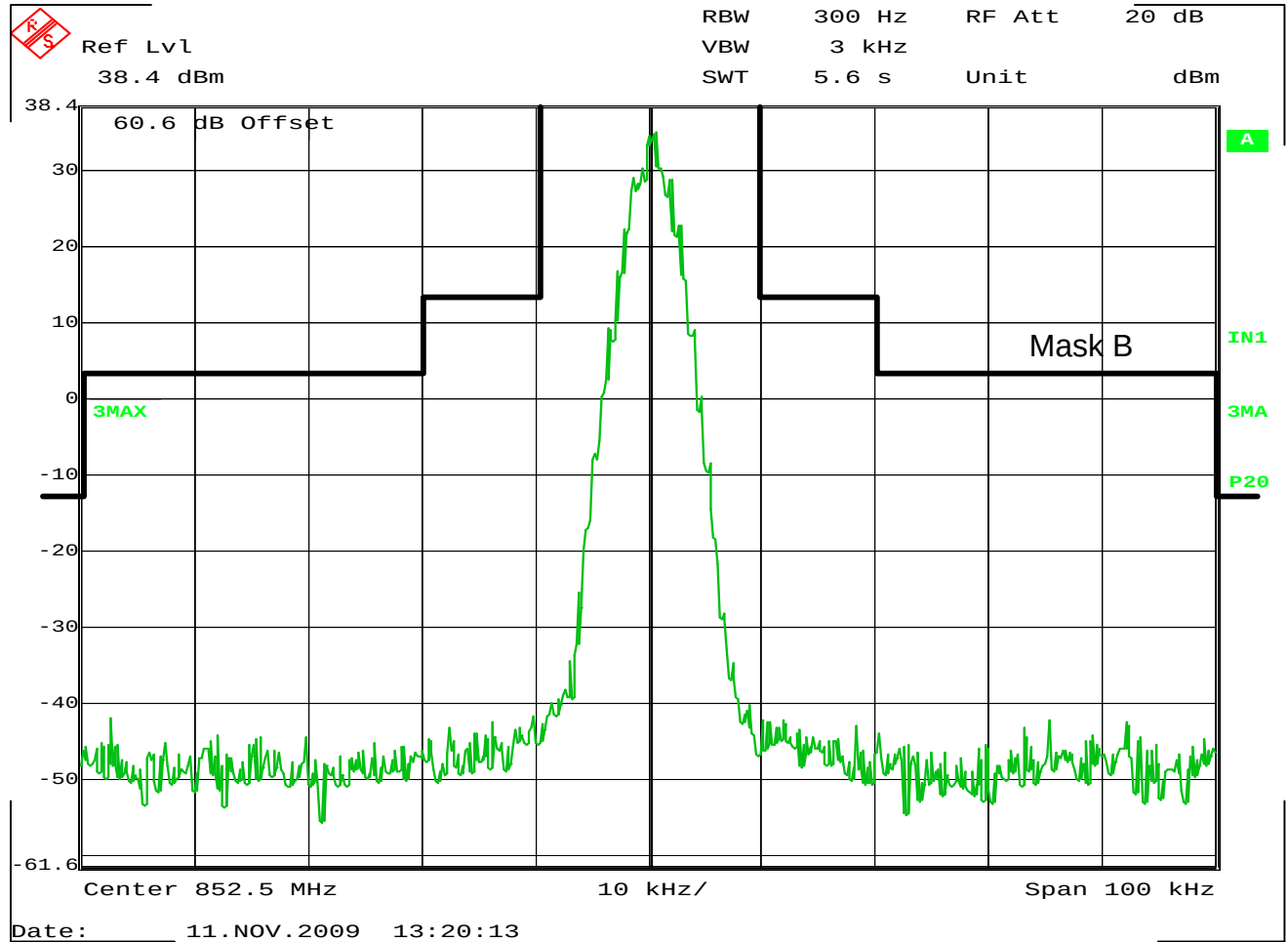
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF



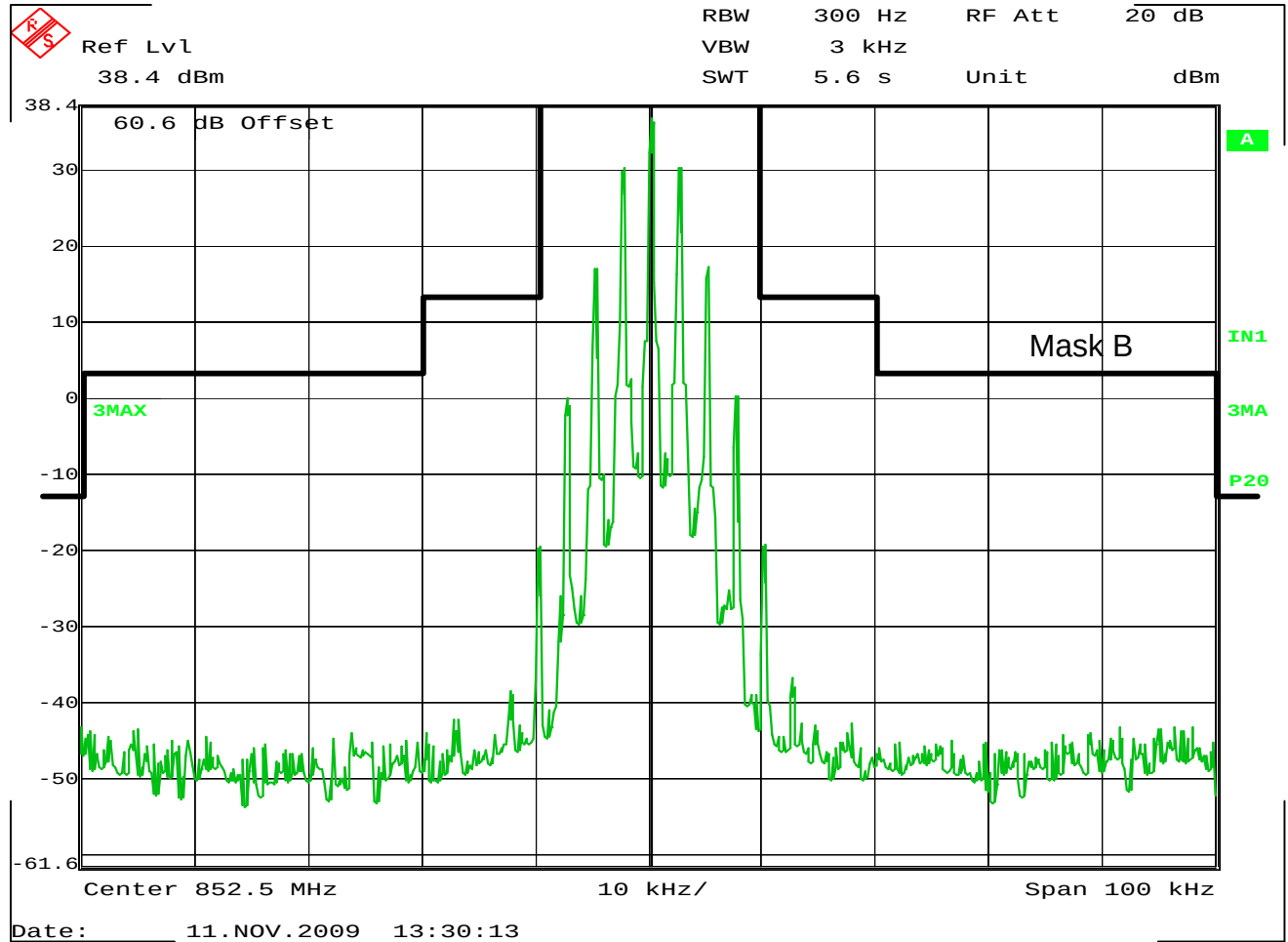
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + DPL

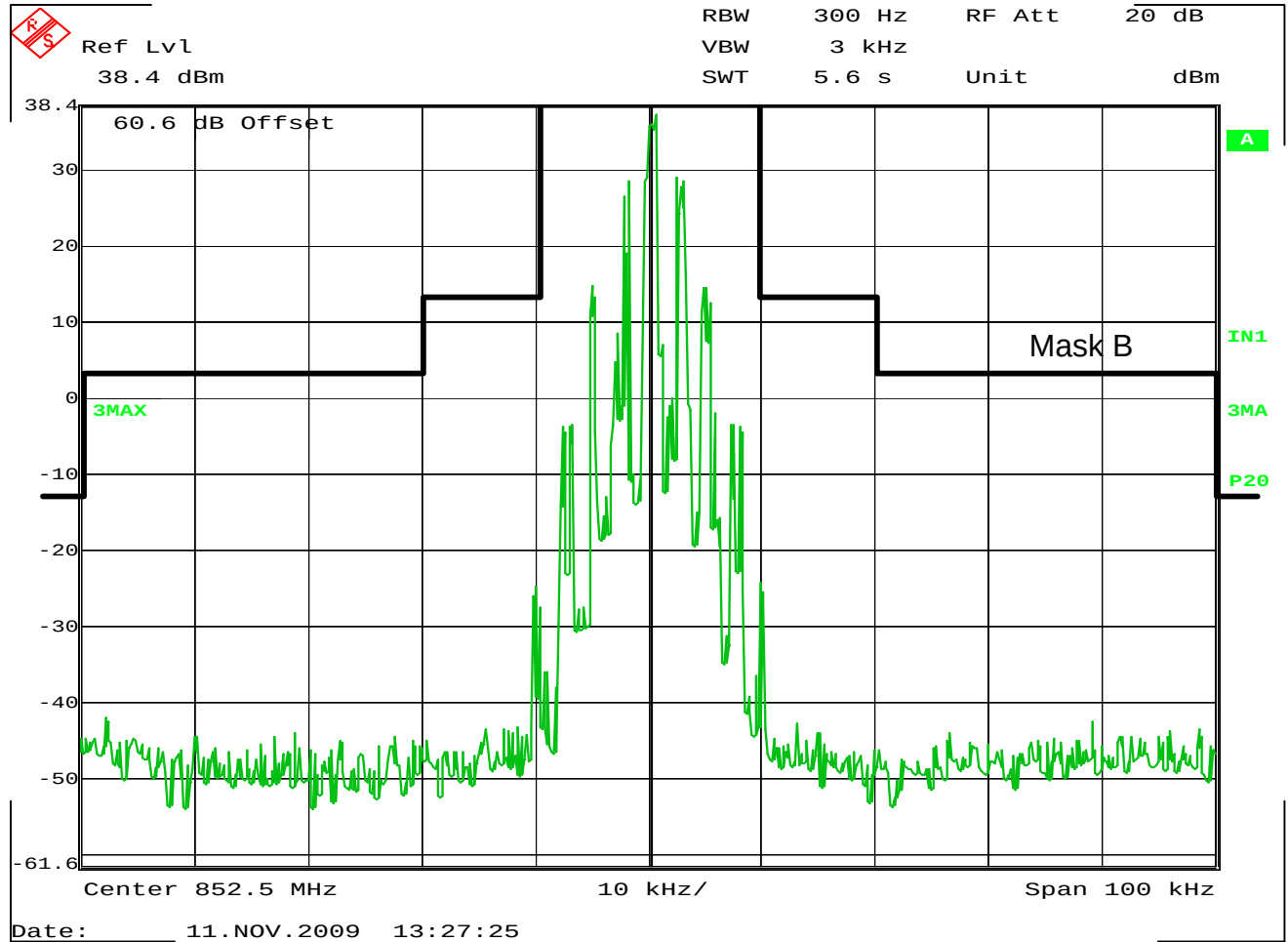


FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask D
: DTMF + TPL

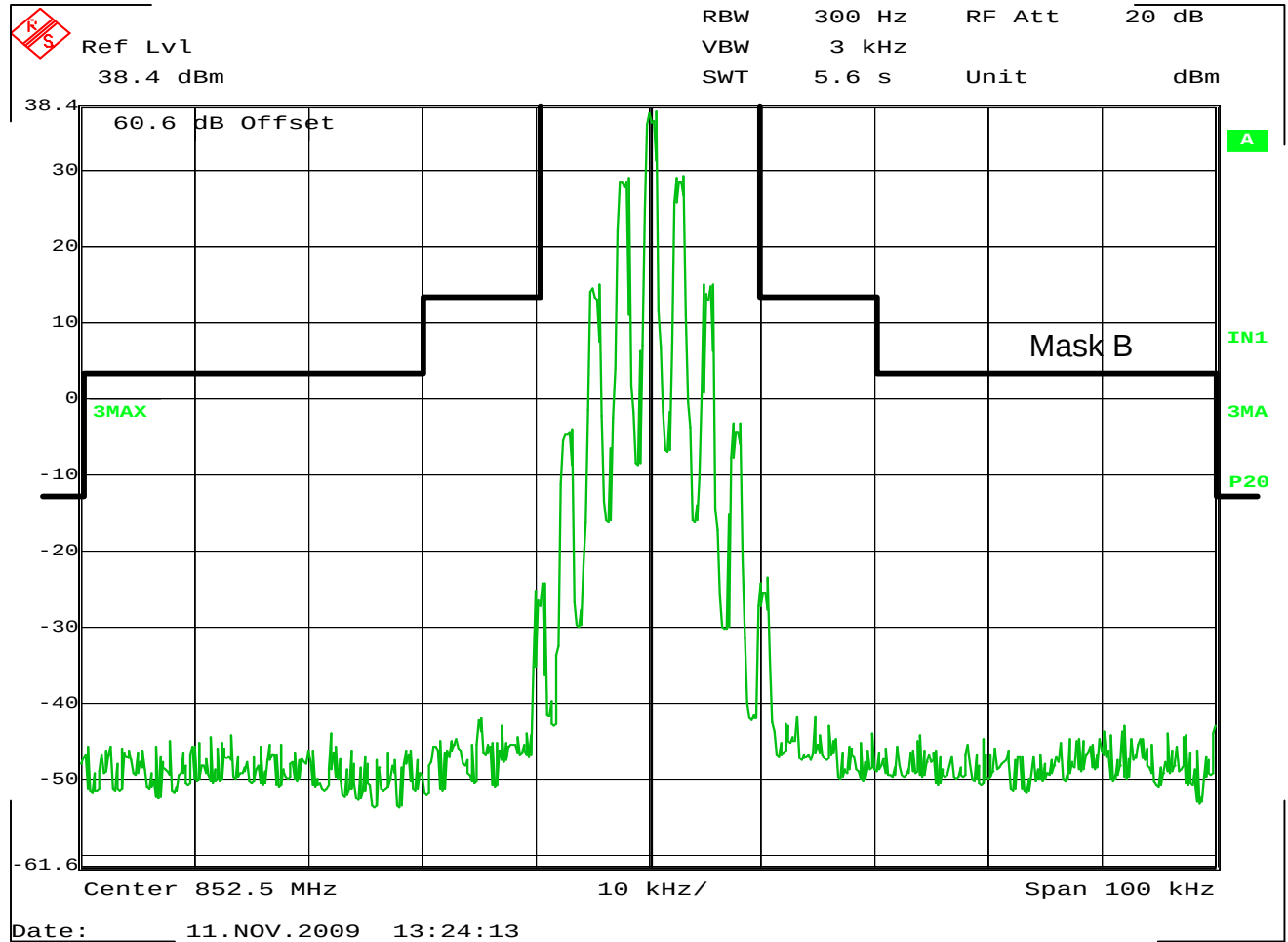


MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK



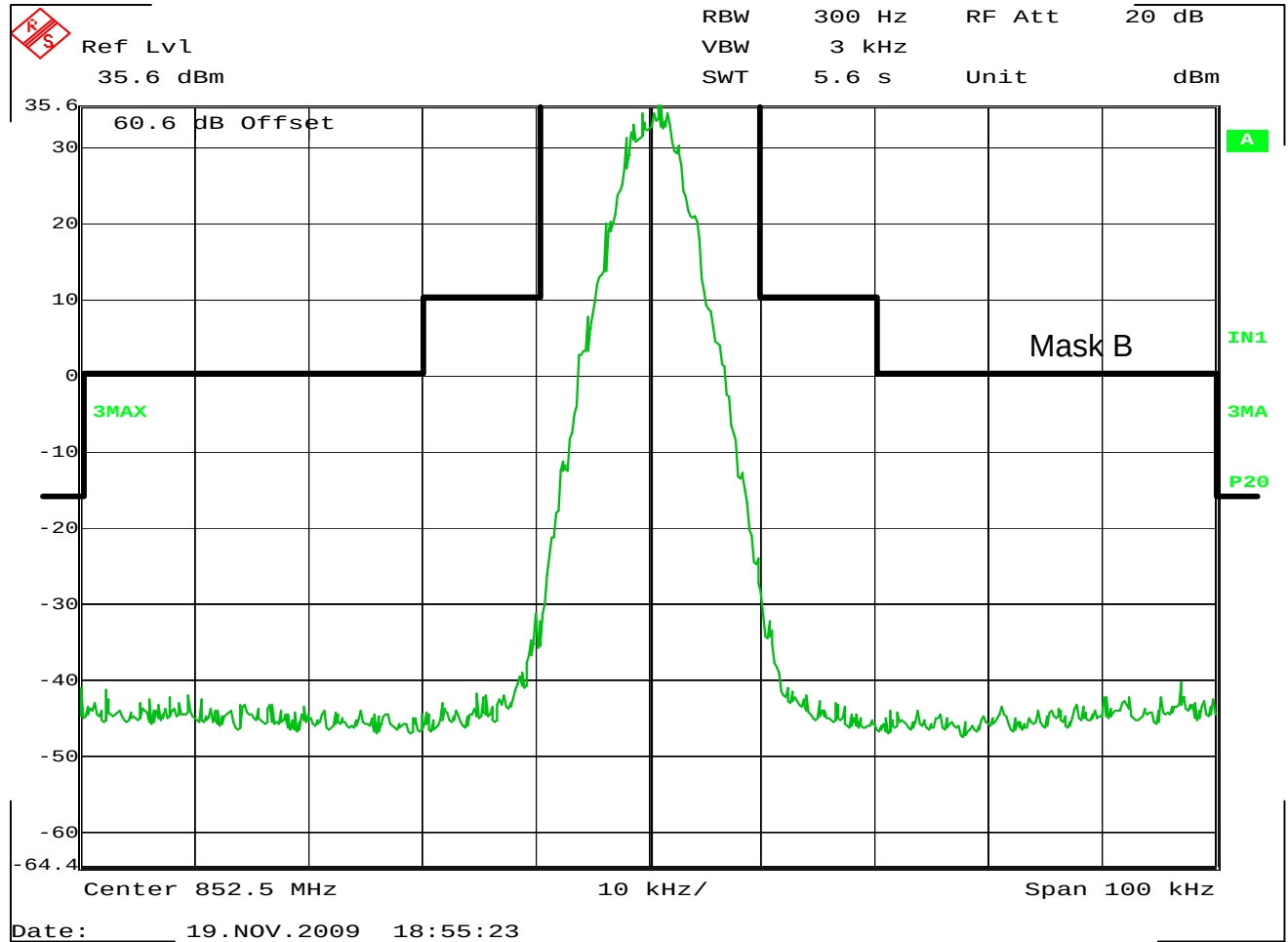
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + DPL



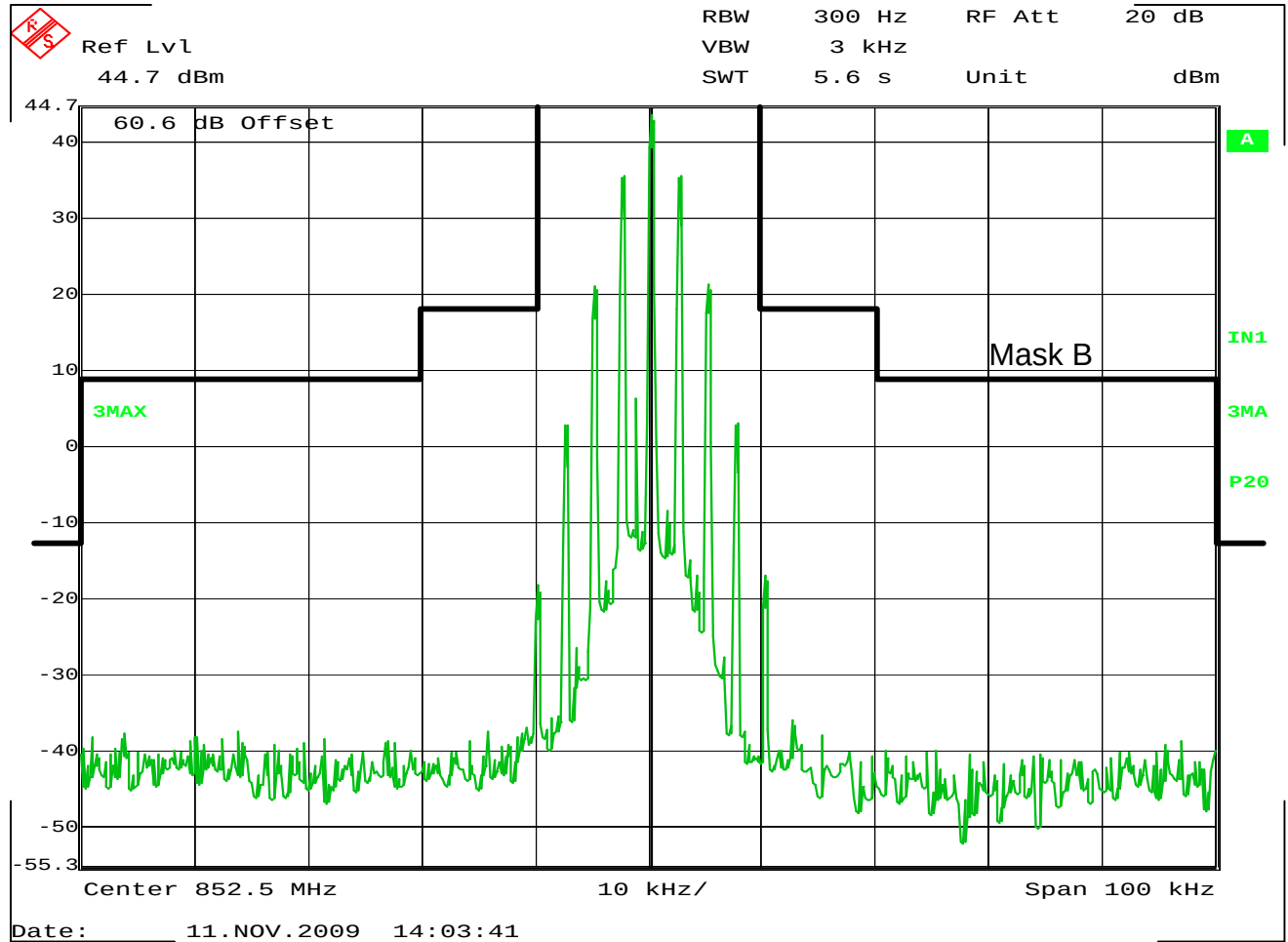
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + TPL



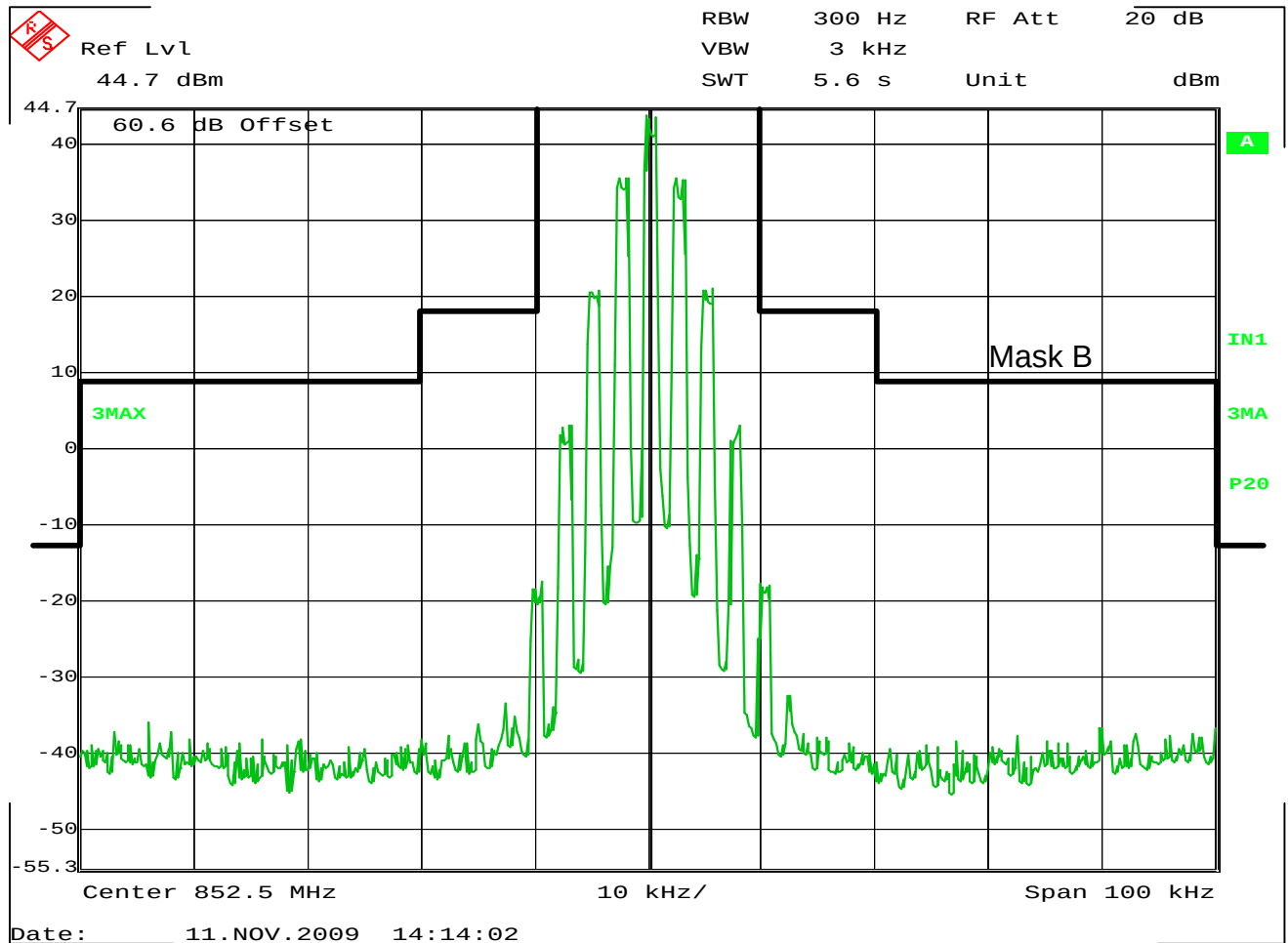
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: Digital Modulation



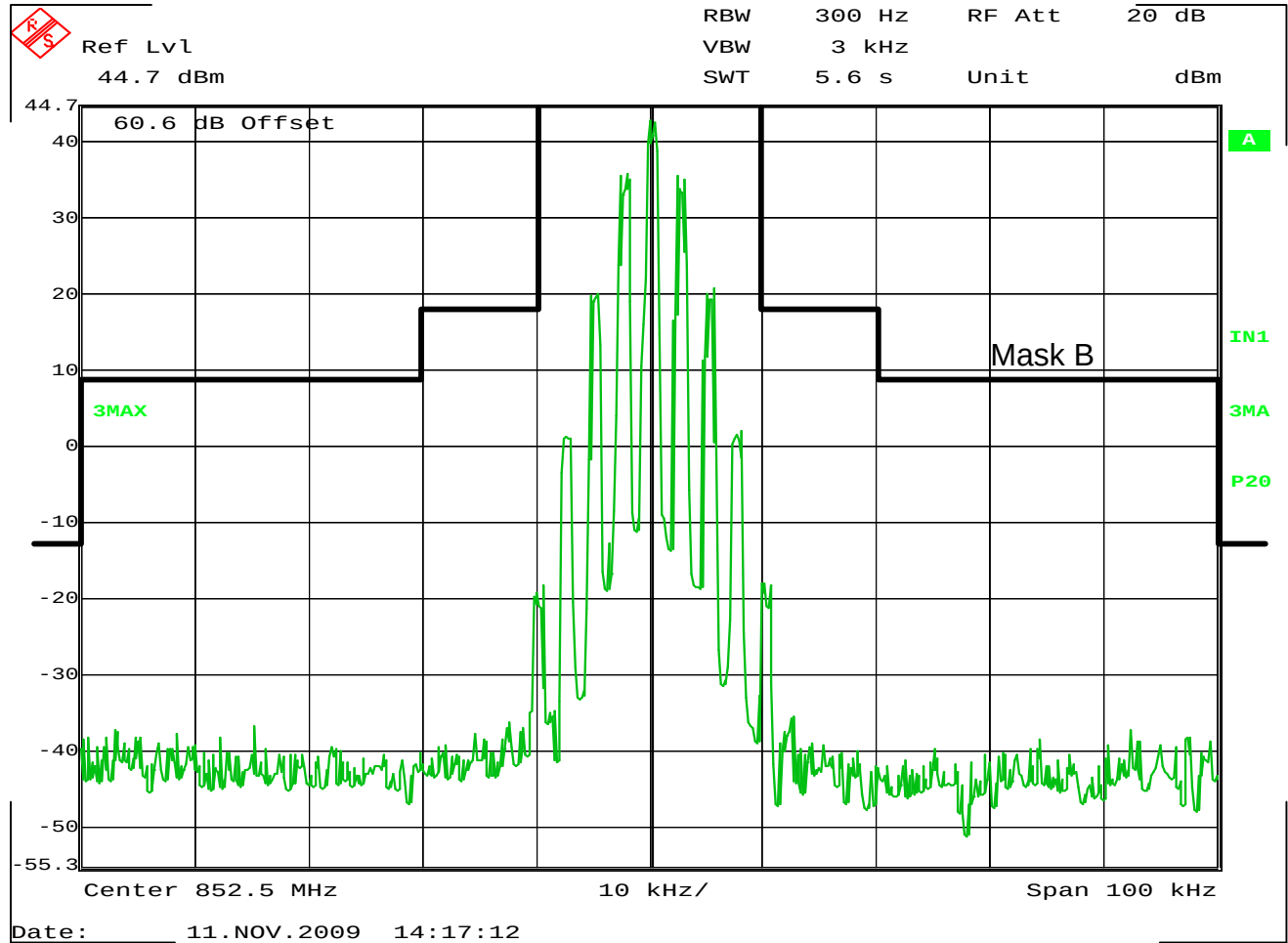
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



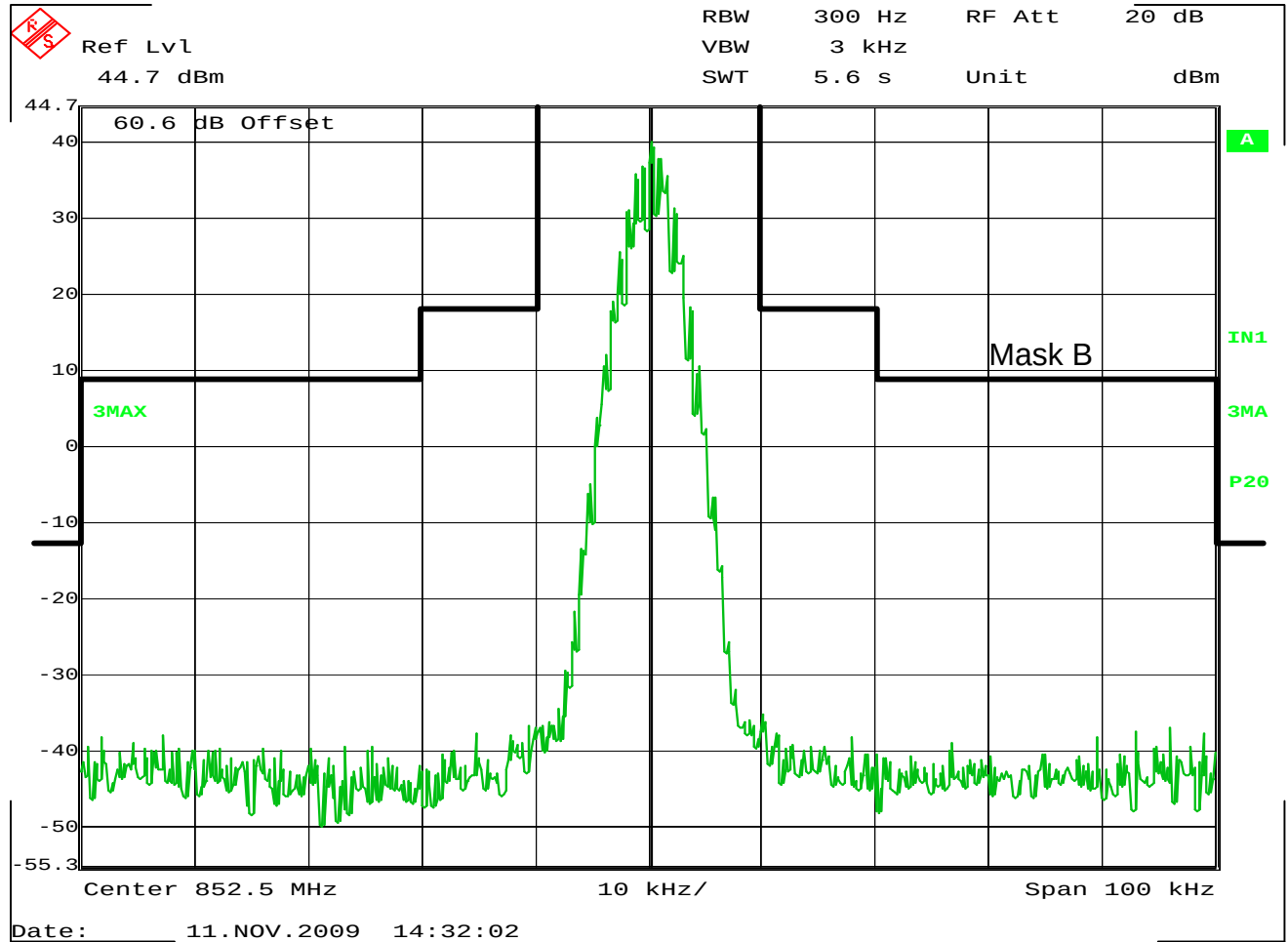
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 12.5kHz
 NOTES : Mask D
 : 2500Hz Tone, 16dB above 50% Deviation + DPL



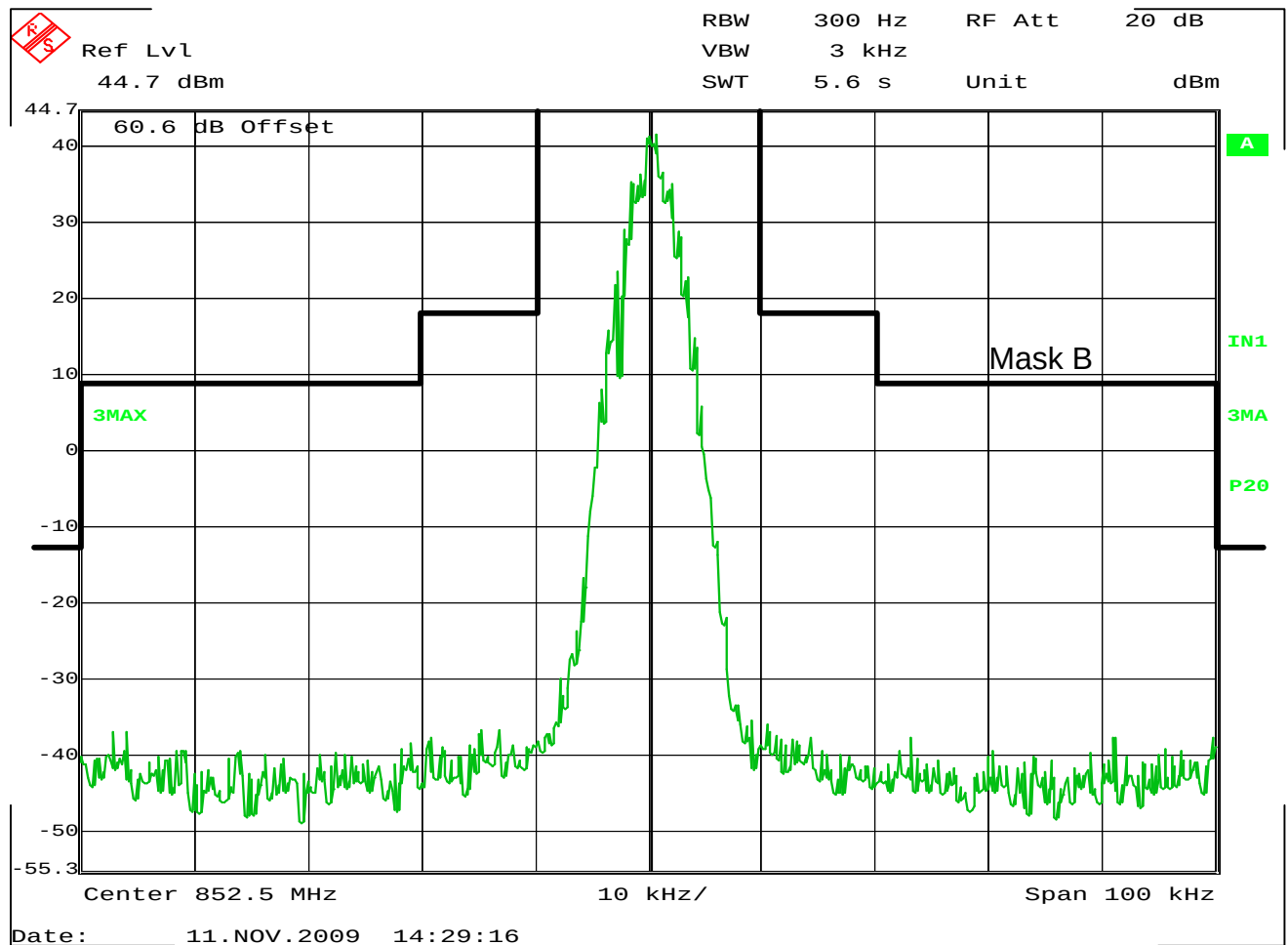
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + TPL



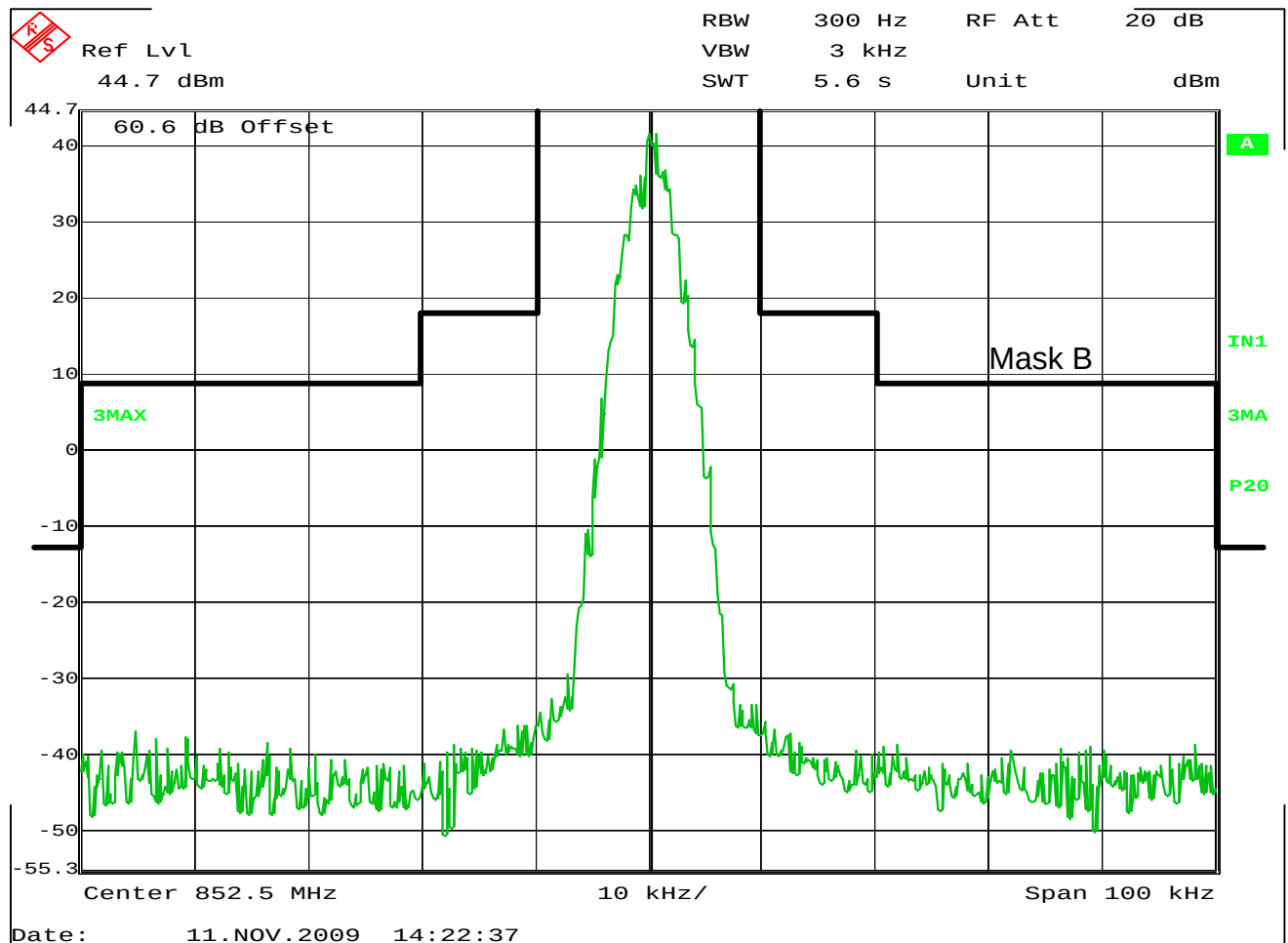
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF



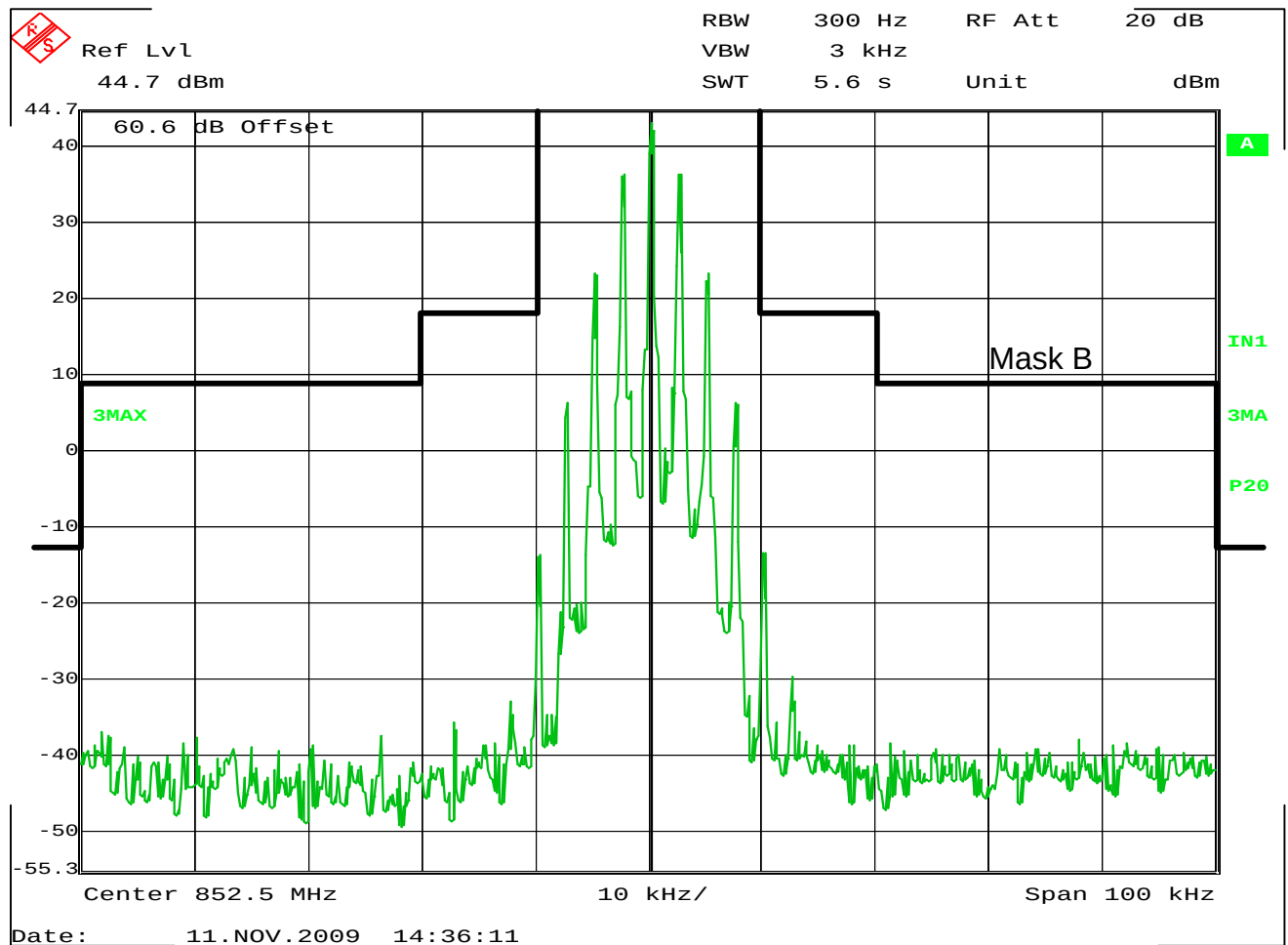
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 12.5kHz
 NOTES : Mask B
 : DTMF + DPL



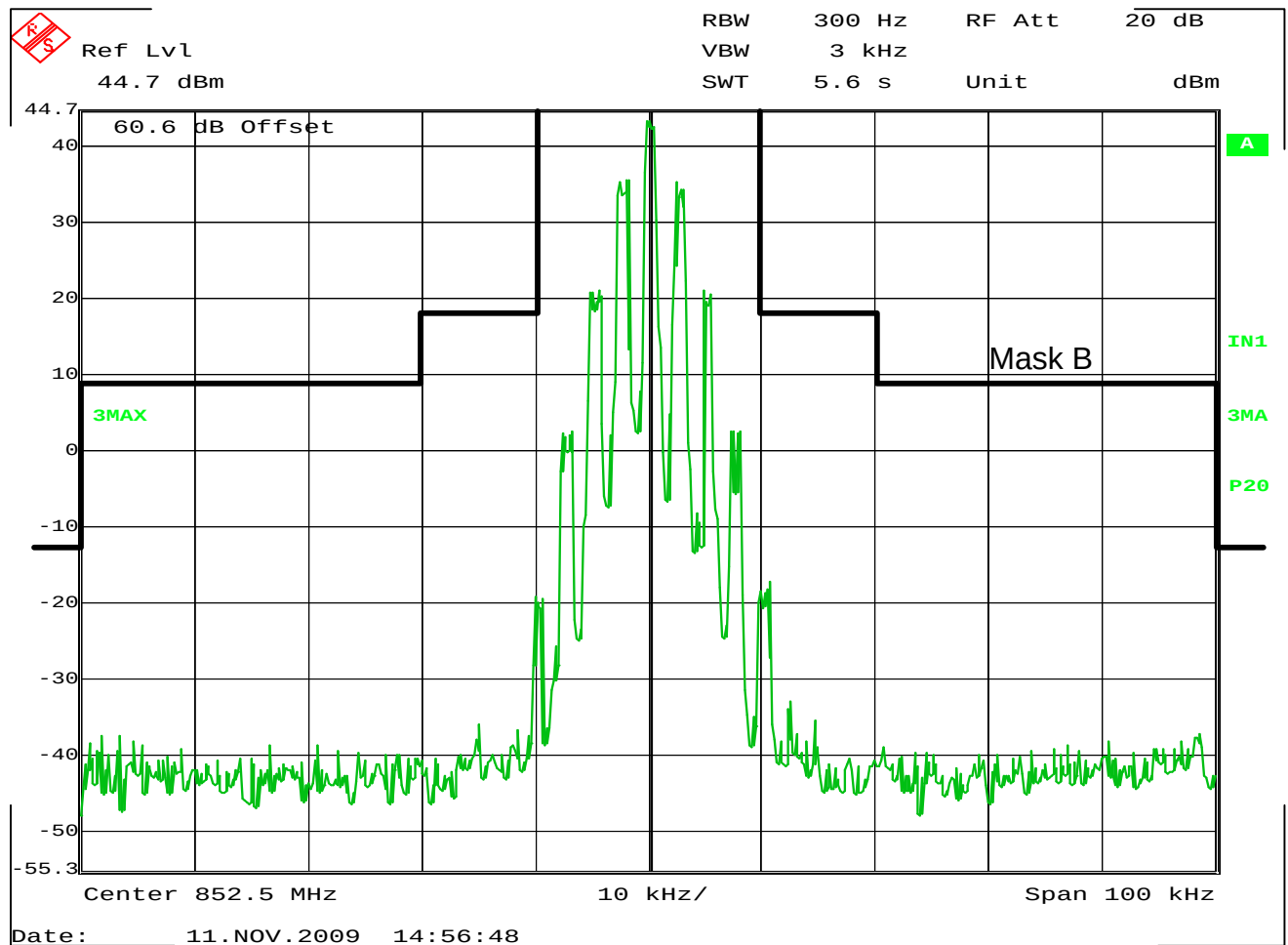
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + TPL



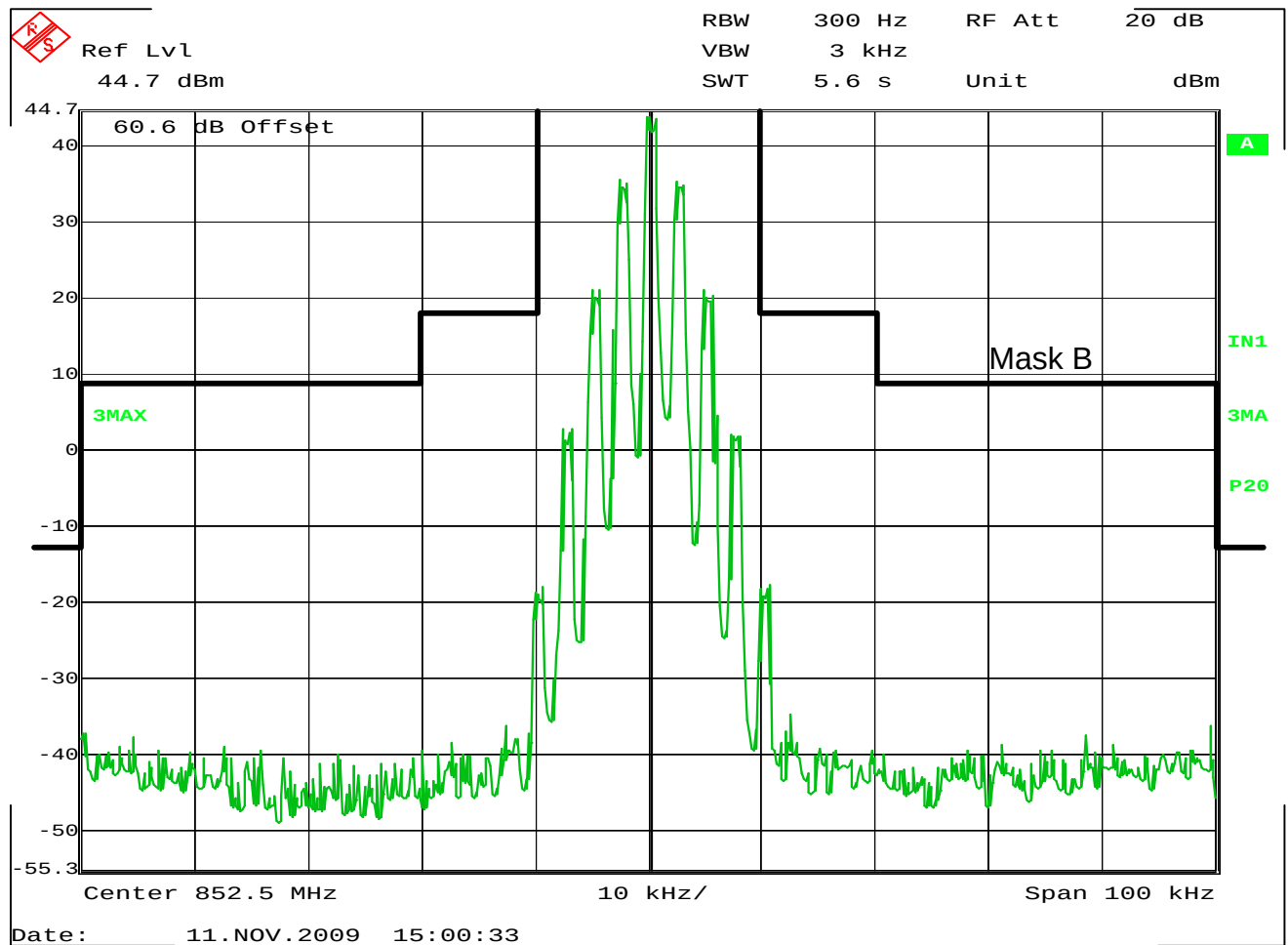
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK



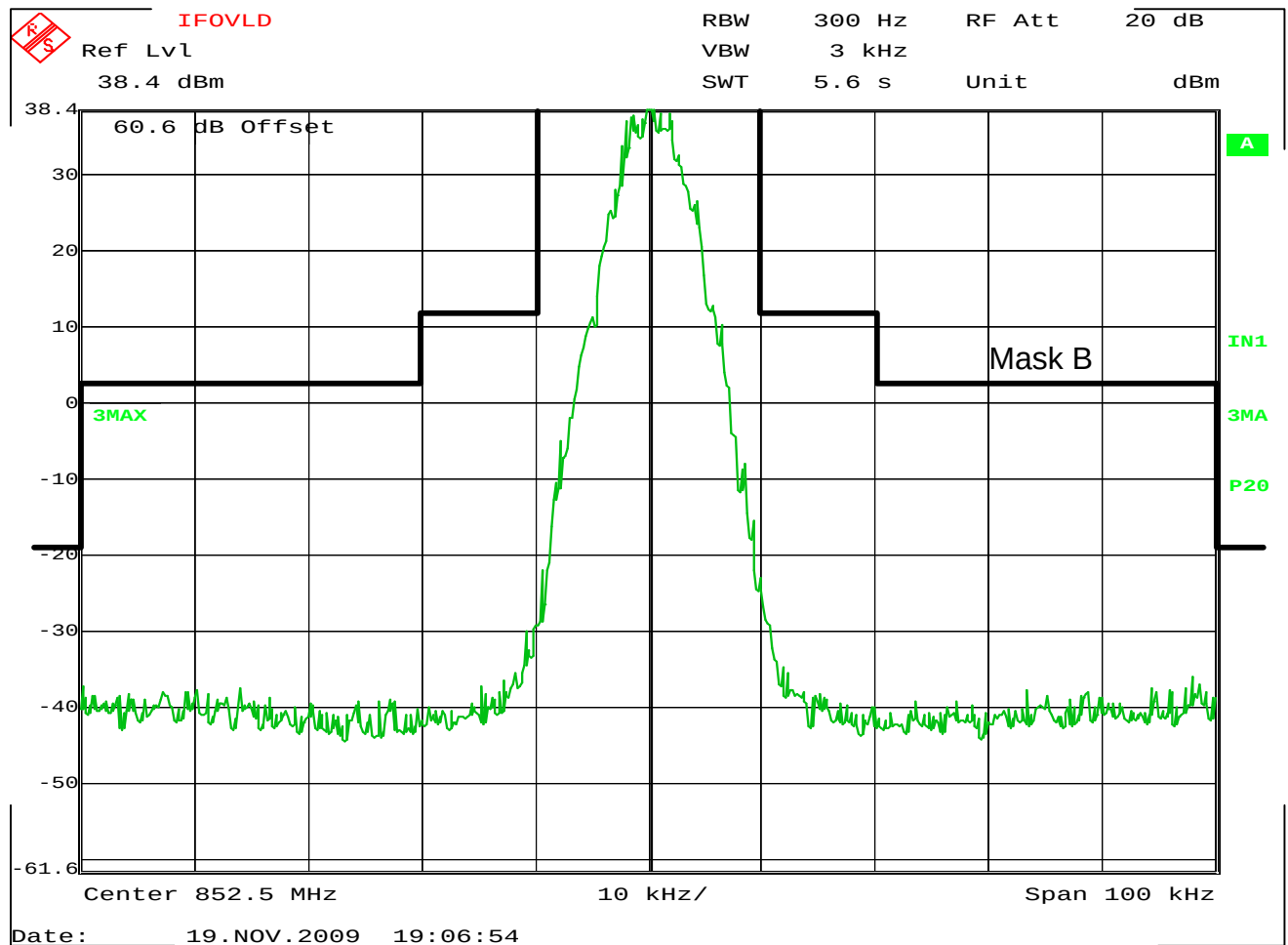
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + DPL



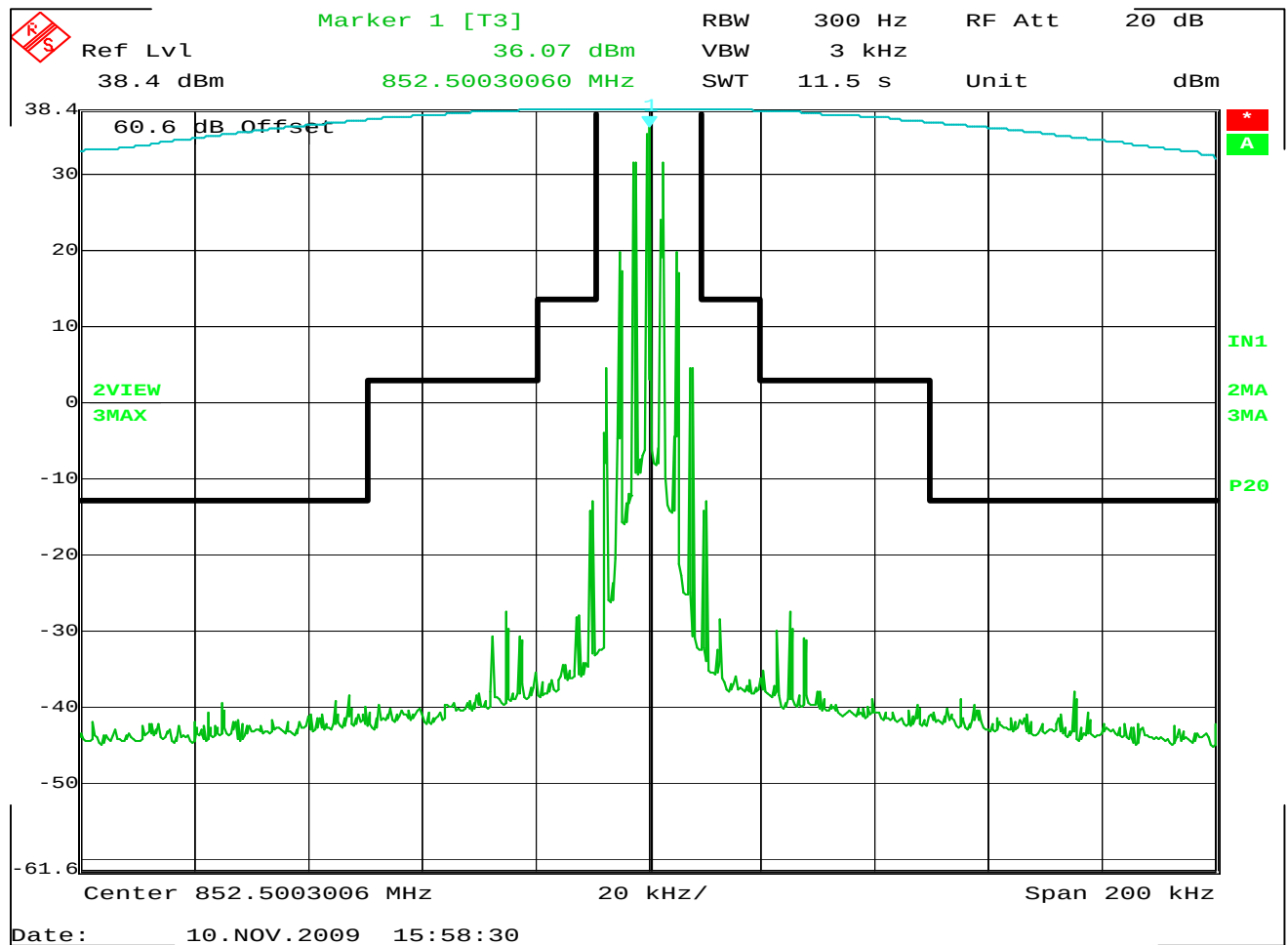
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + TPL



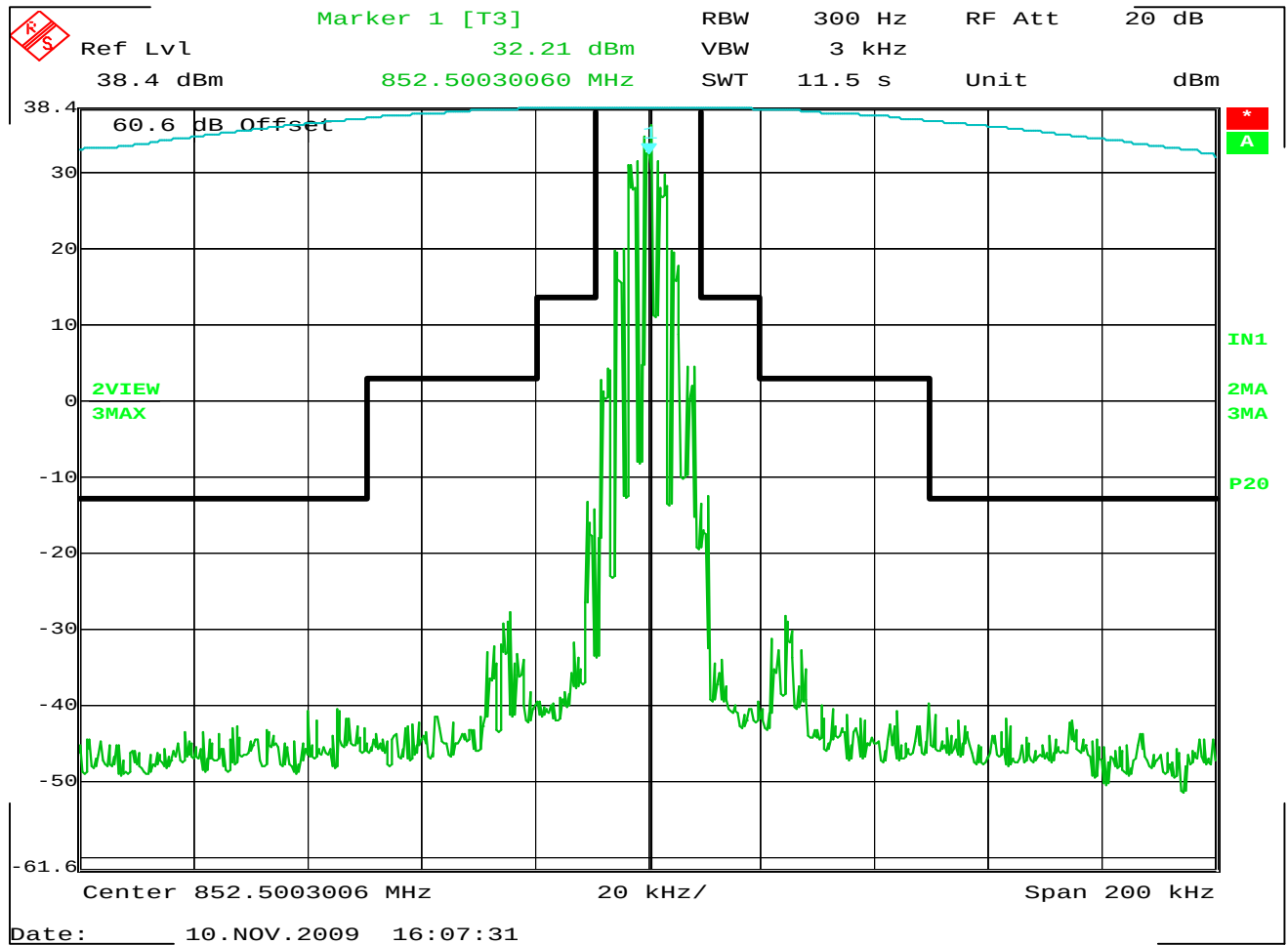
FCC 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: Motorola Digital Modulation



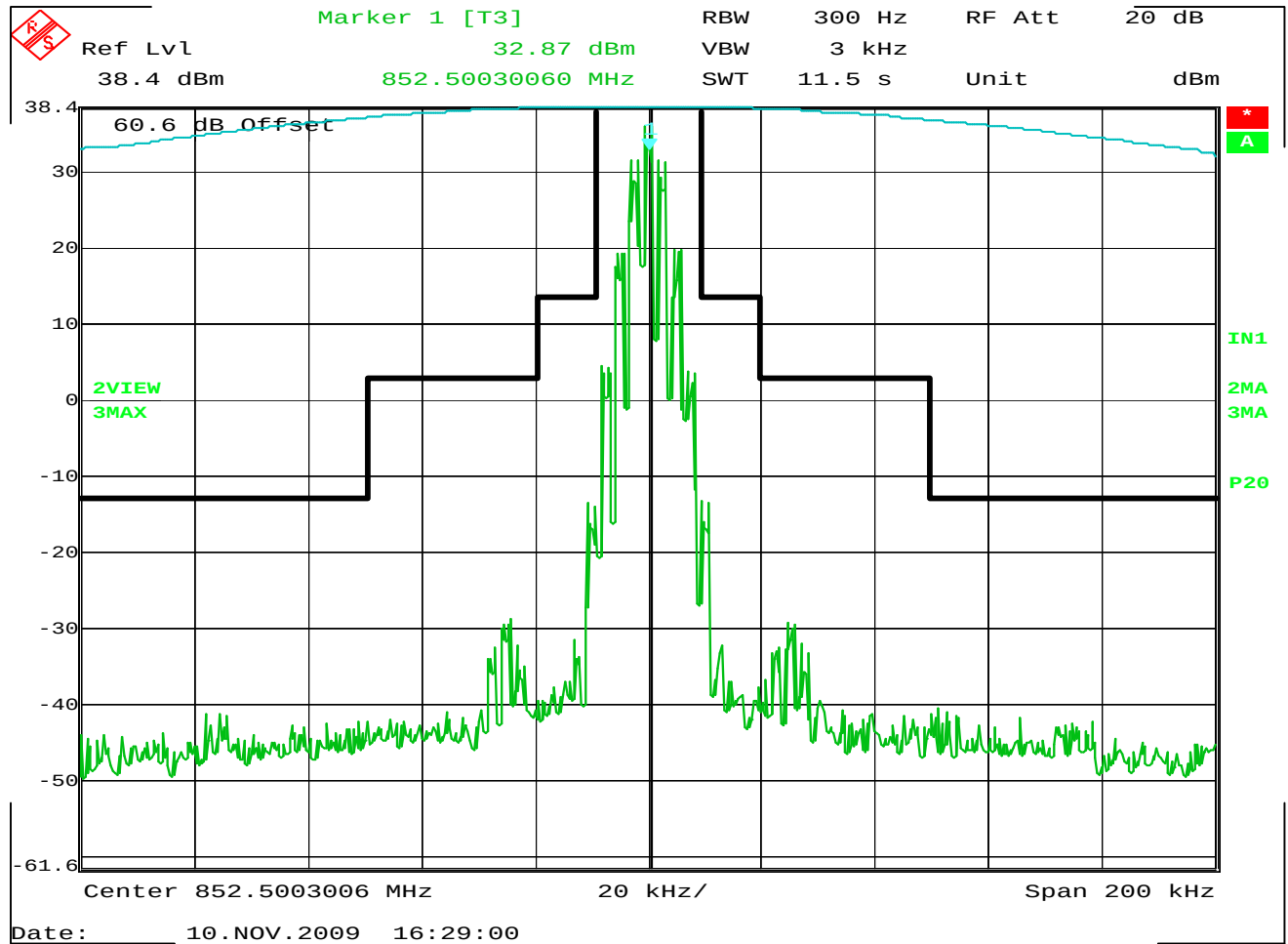
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 10W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : 2.5 kHz at 16 dB over 50%



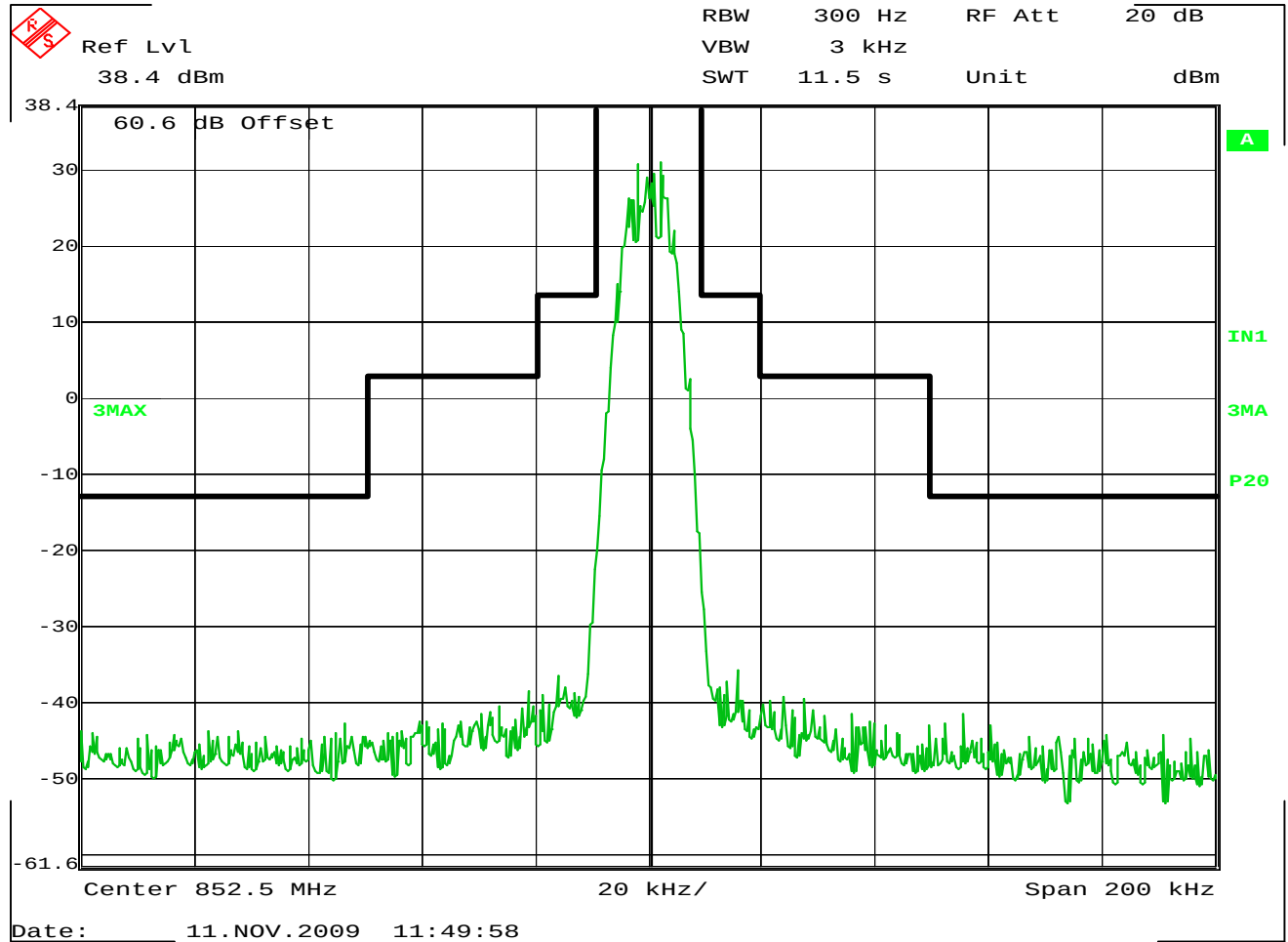
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 10W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : 2.5 kHz at 16 dB over 50% + DPL



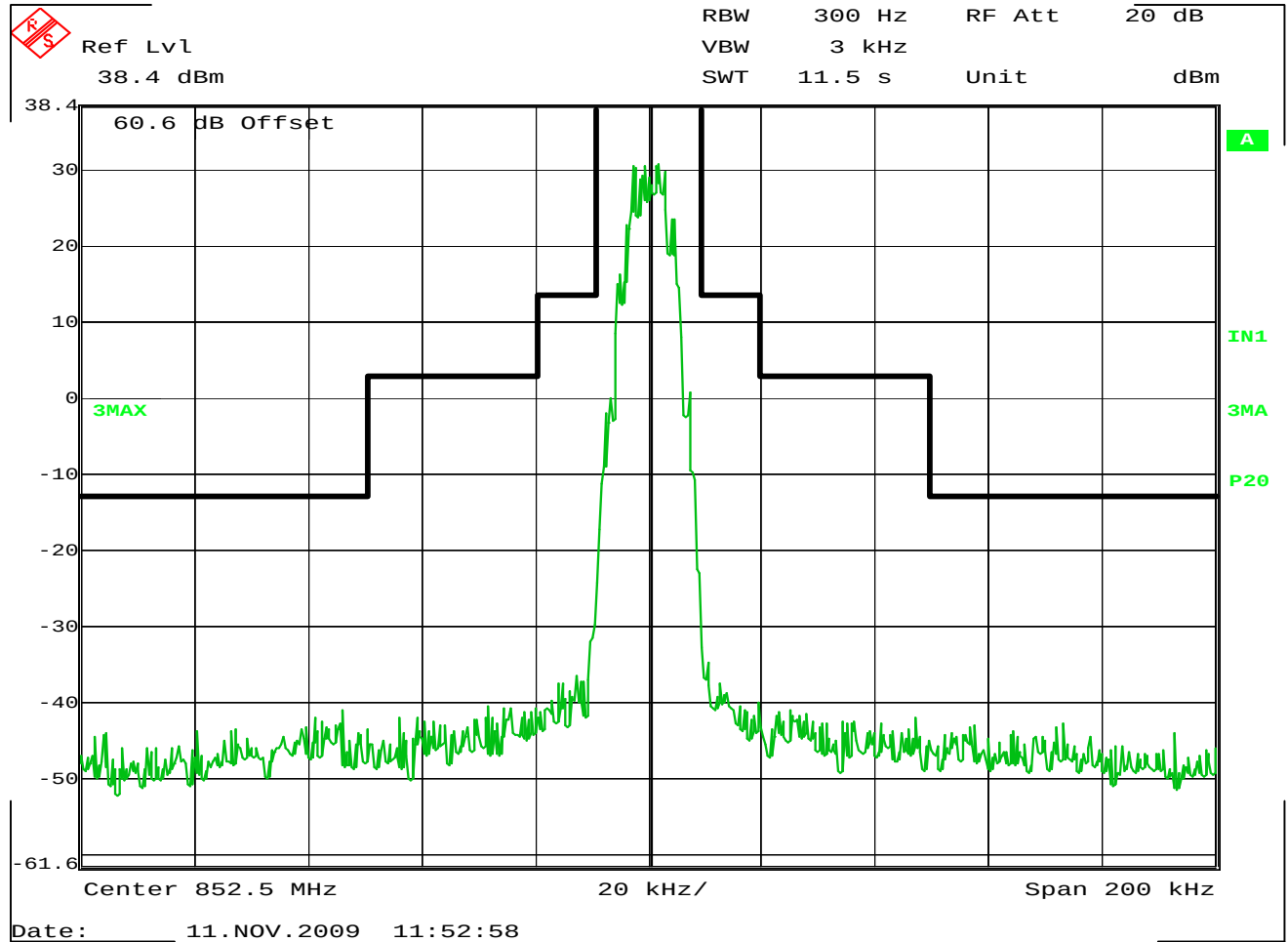
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2.5 kHz at 16 dB over 50% + TPL



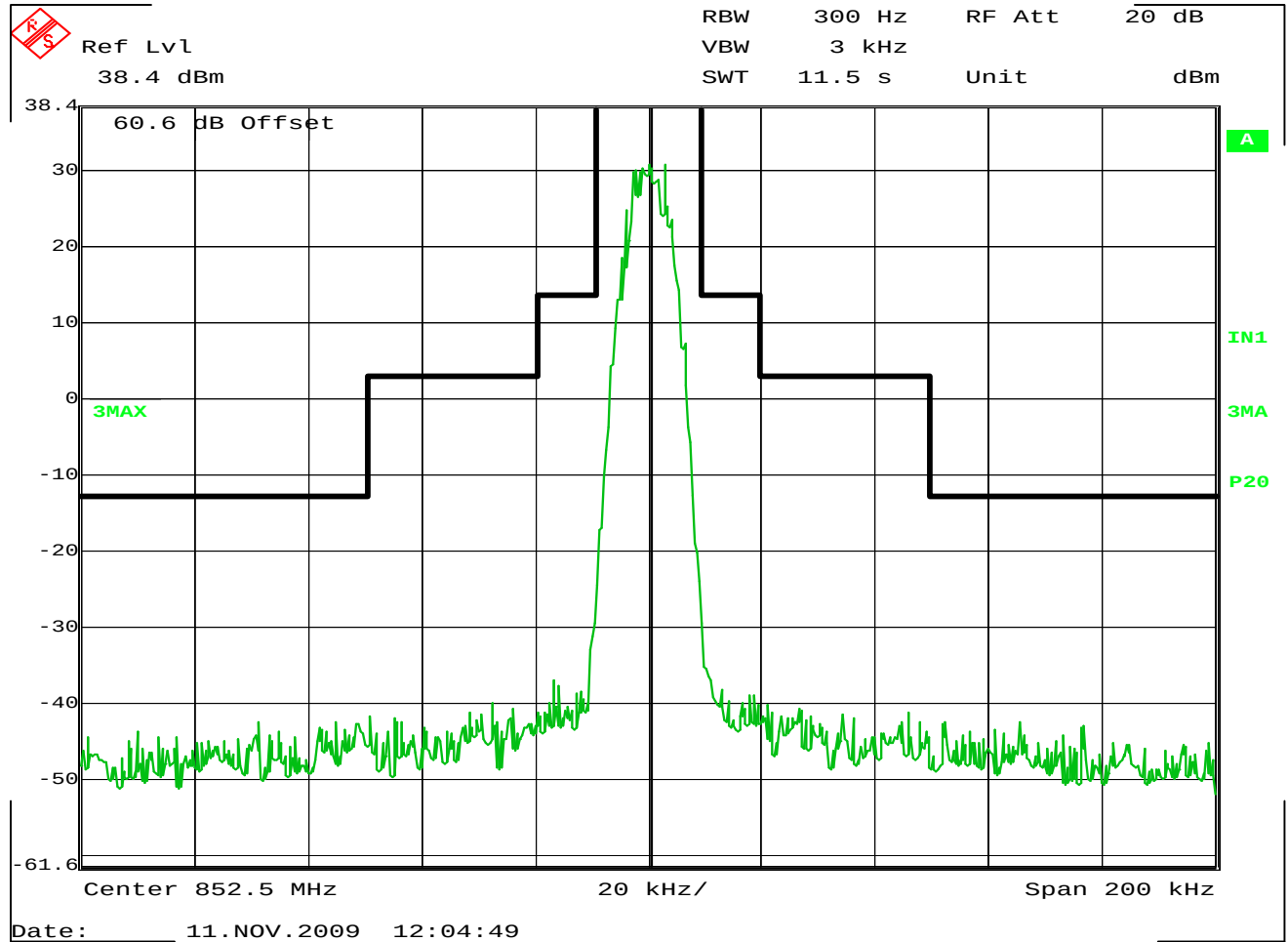
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 10W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : DTMF



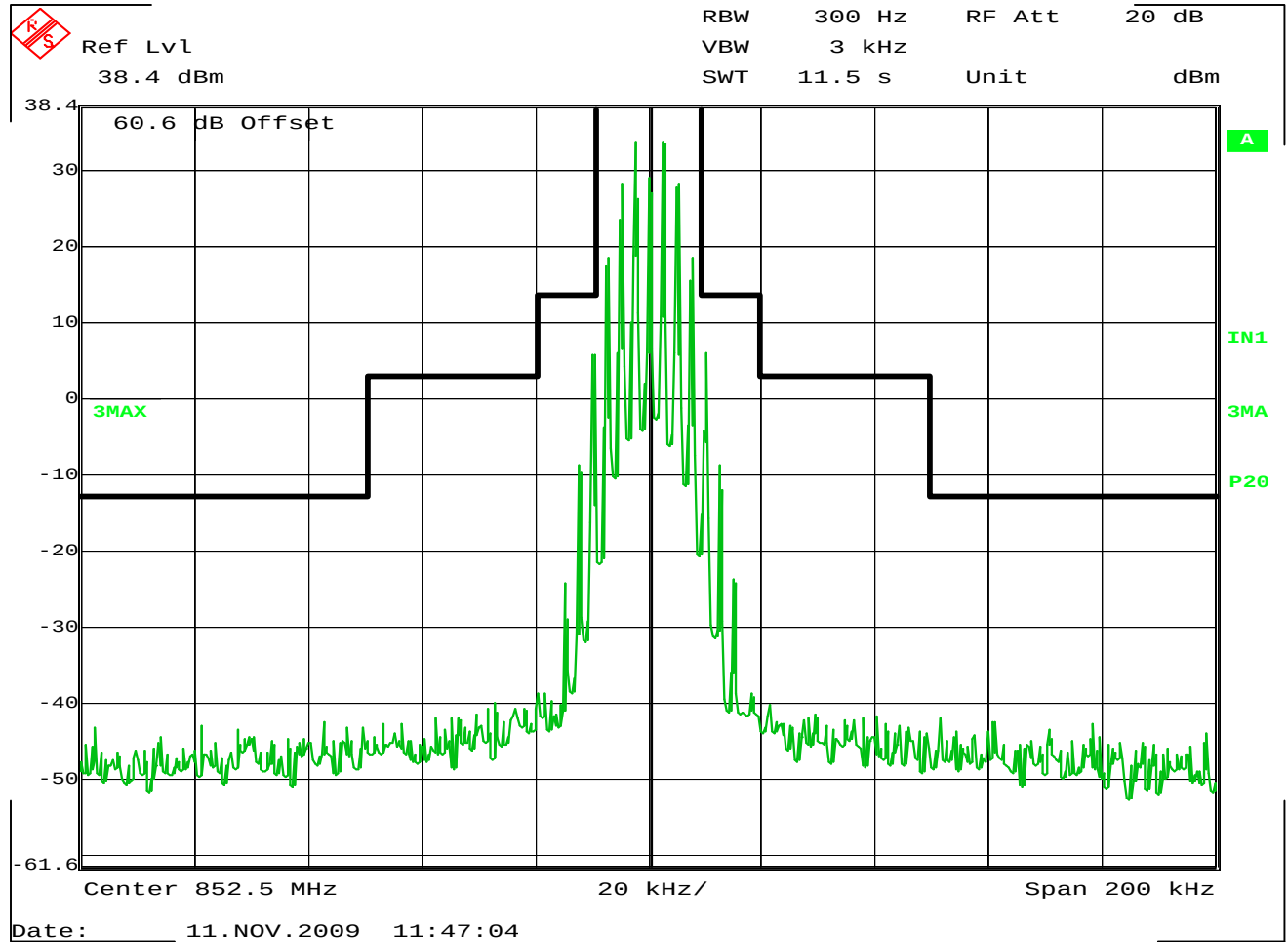
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 10W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : DTMF + DPL



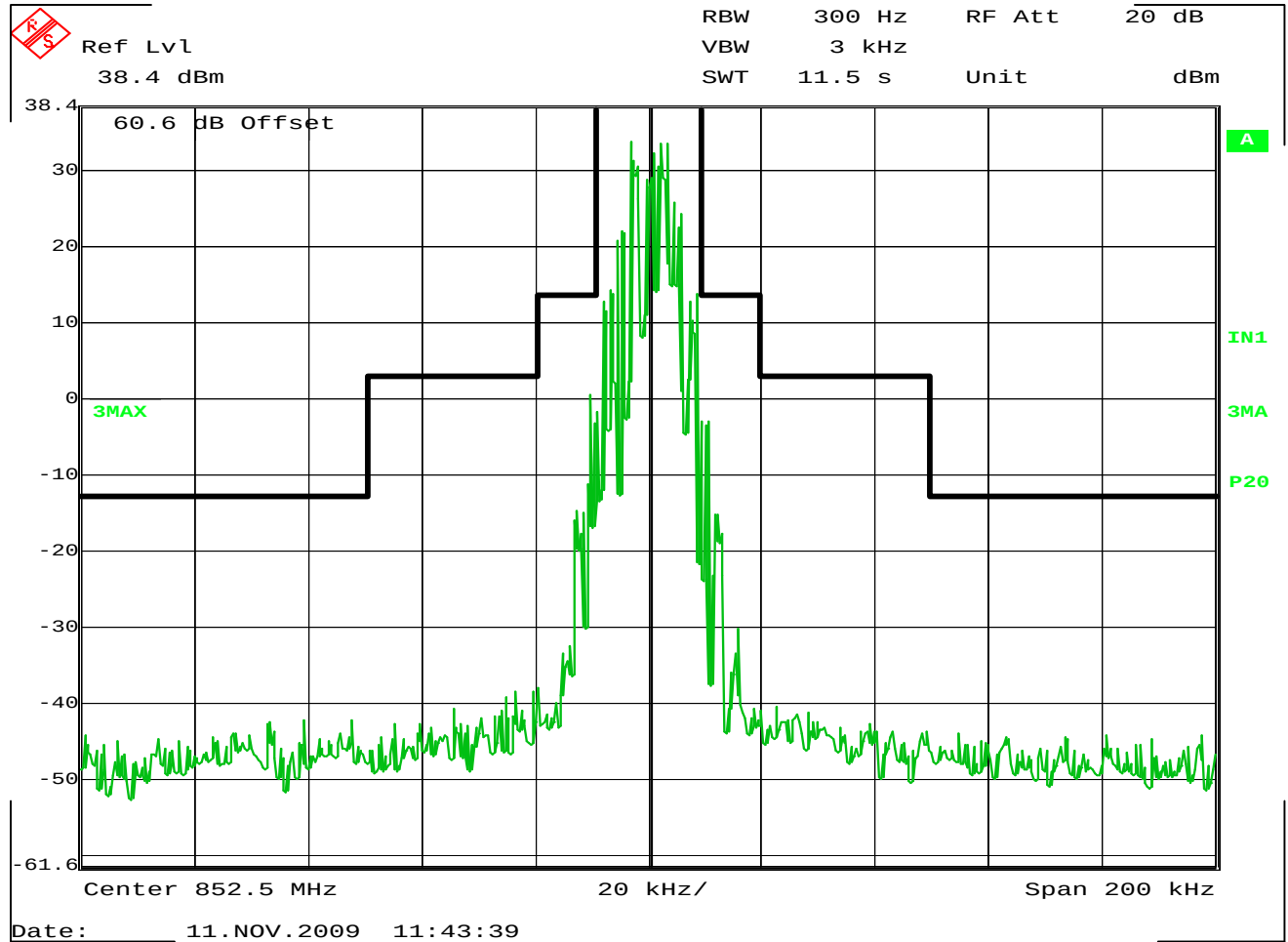
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: DTMF + TPL



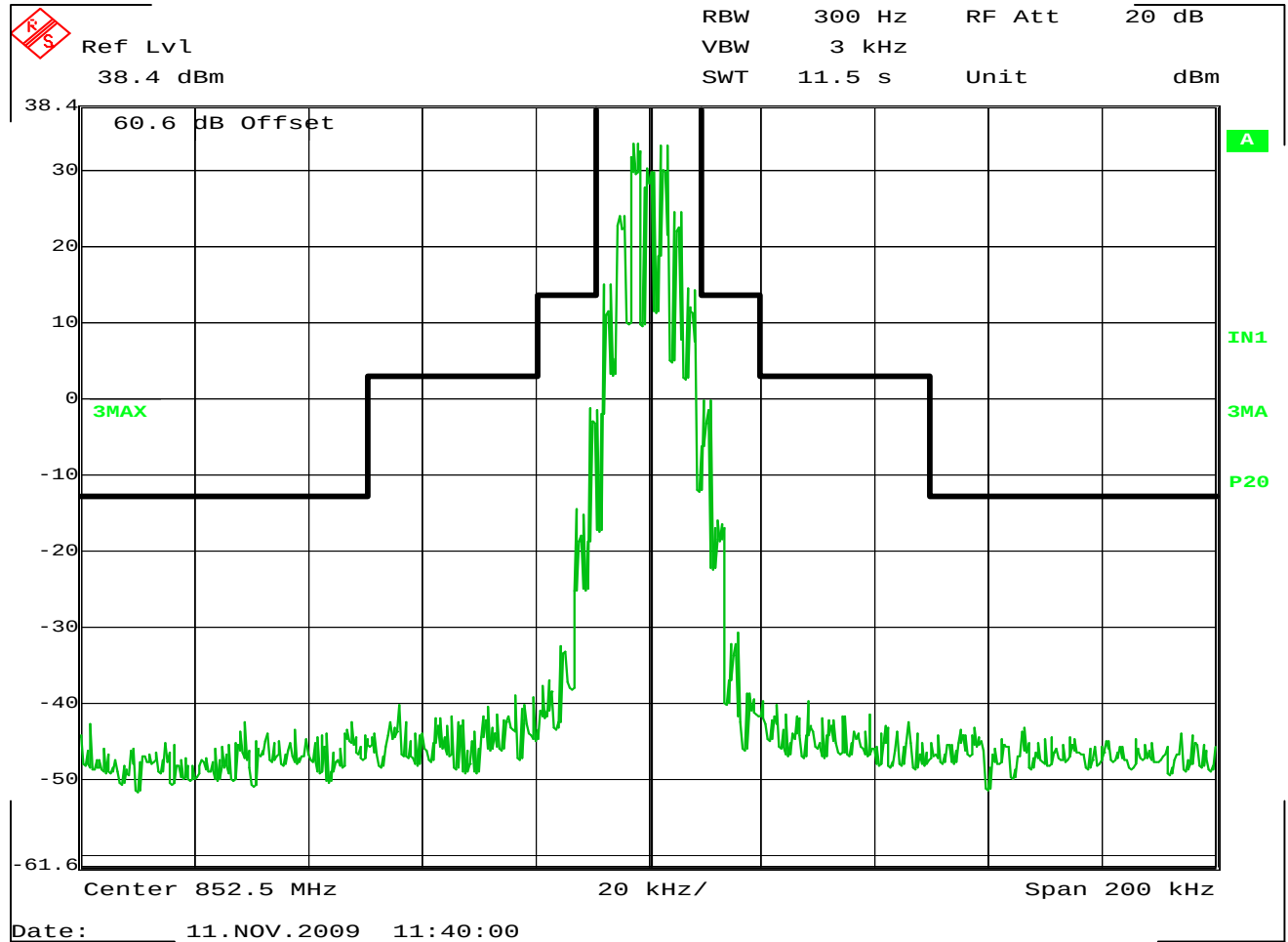
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: FSK



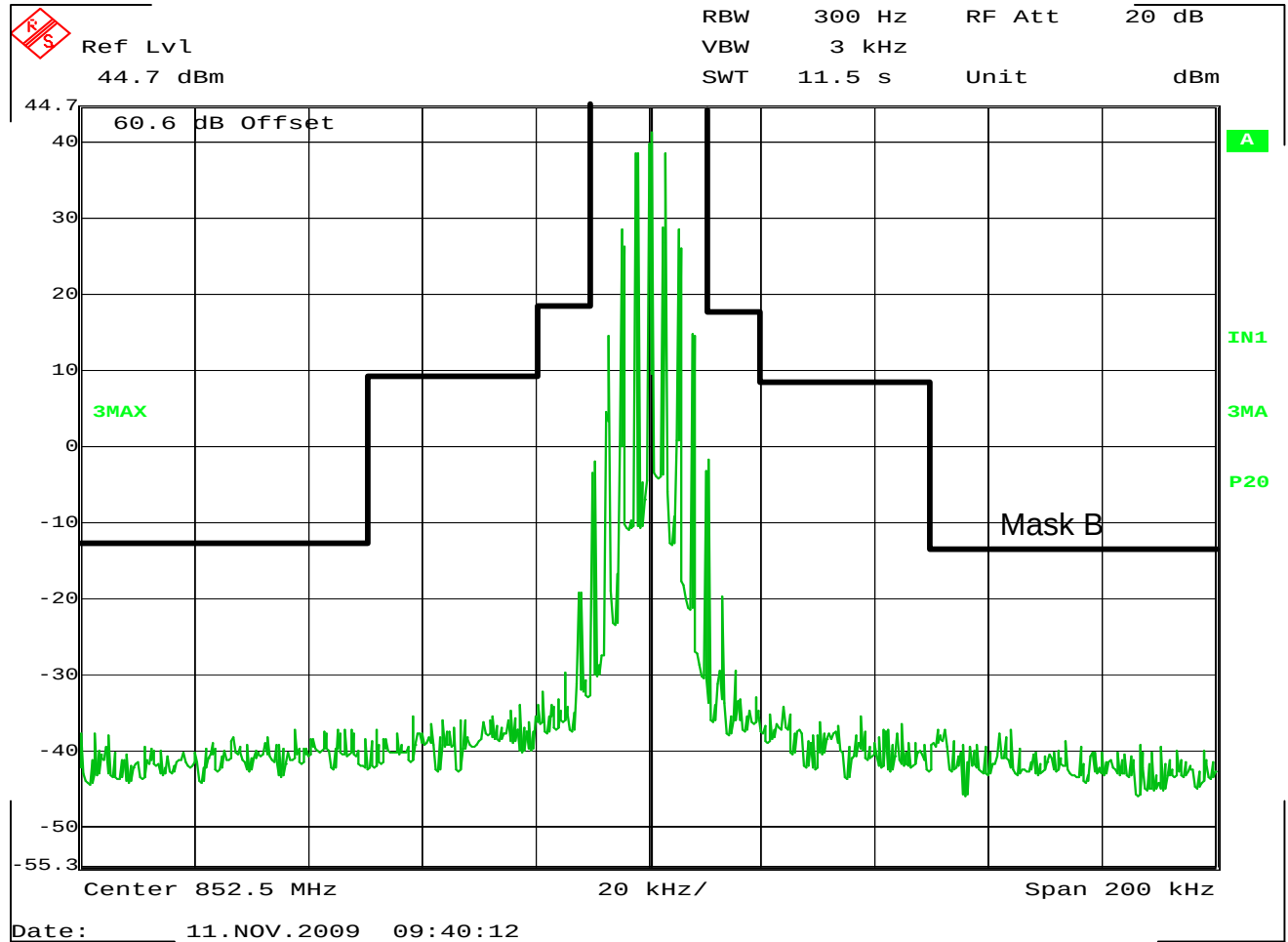
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 10W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : FSK + DPL



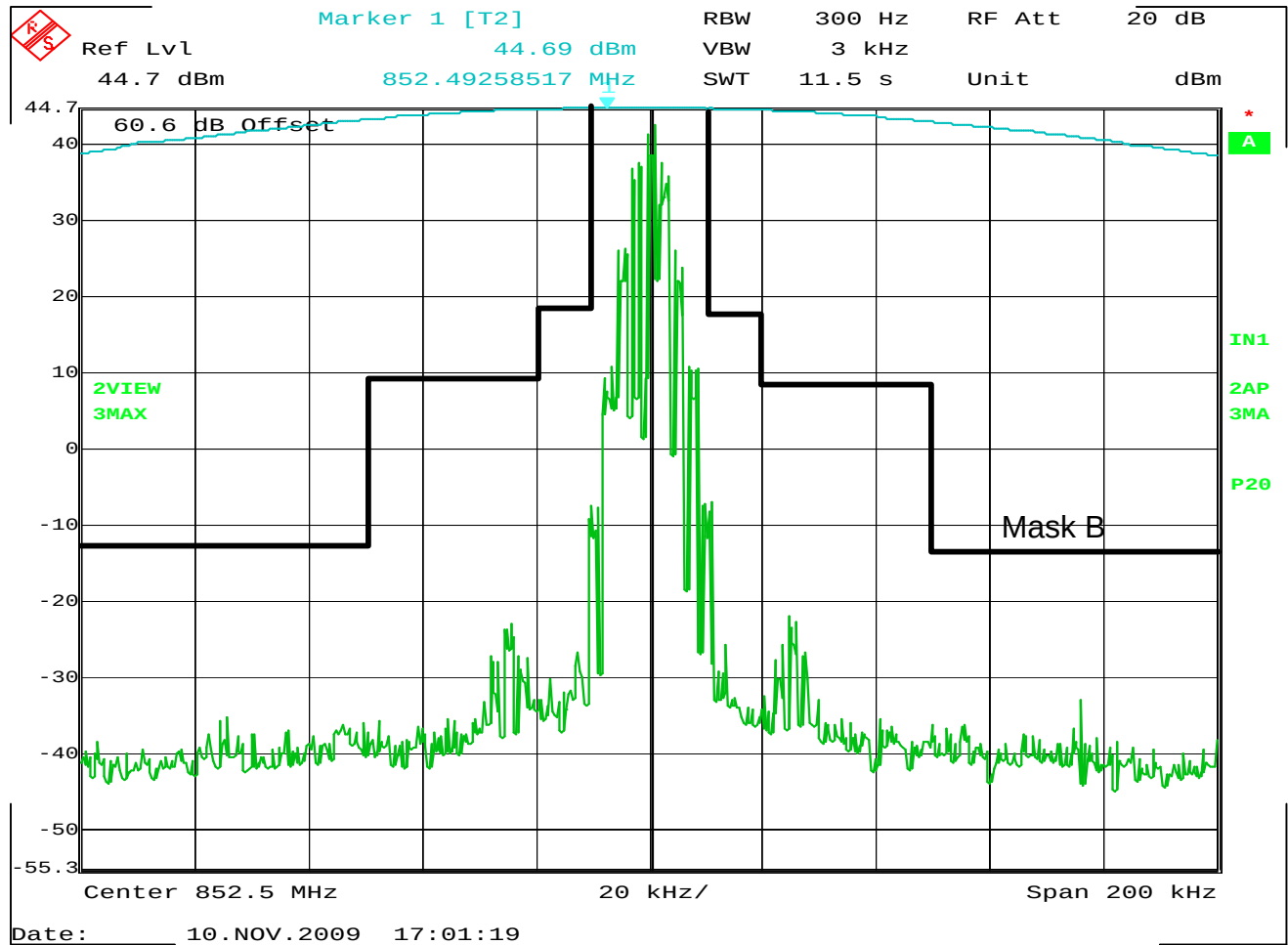
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: FSK + TPL



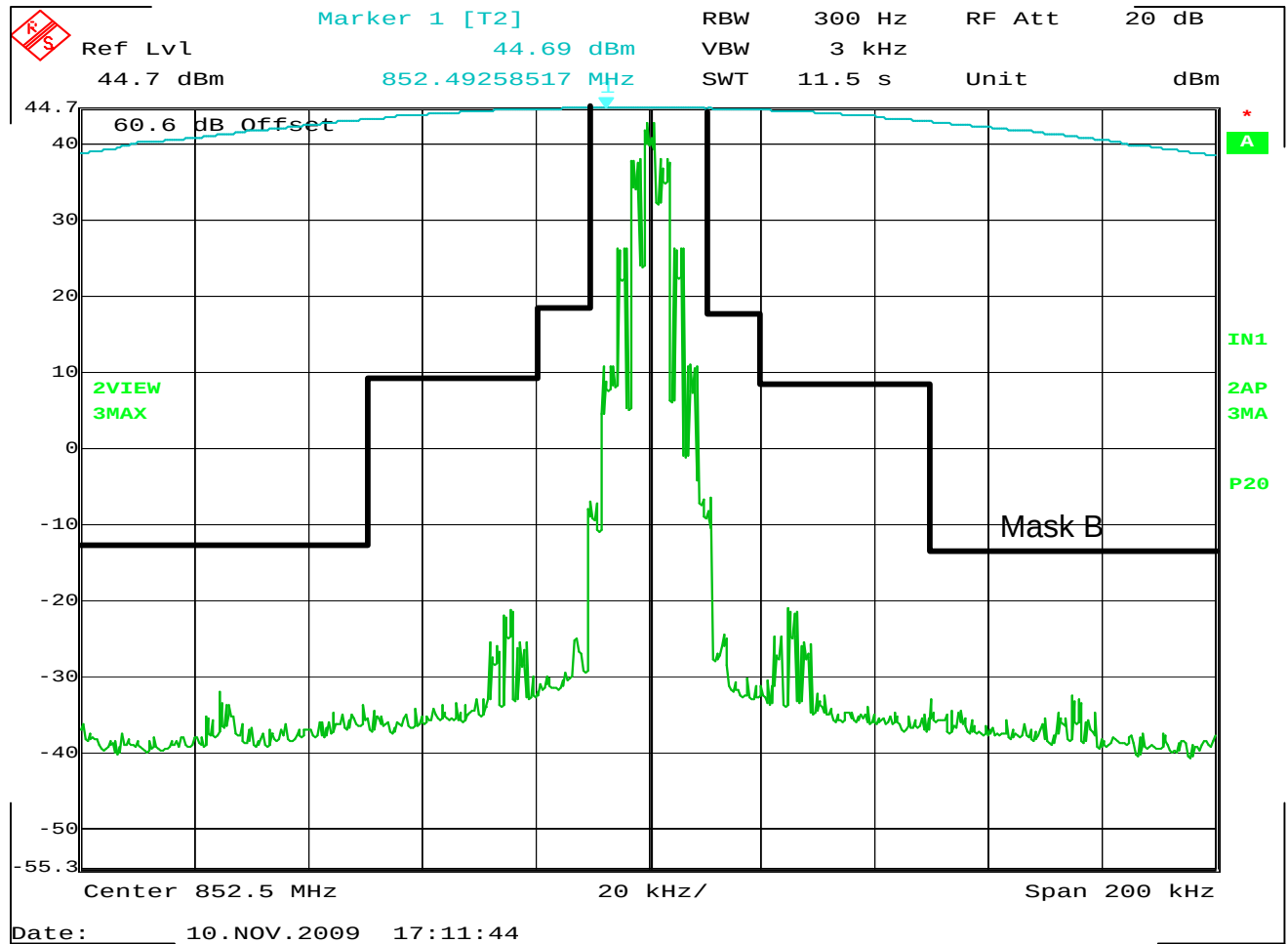
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2.5 kHz at 16 dB over 50%



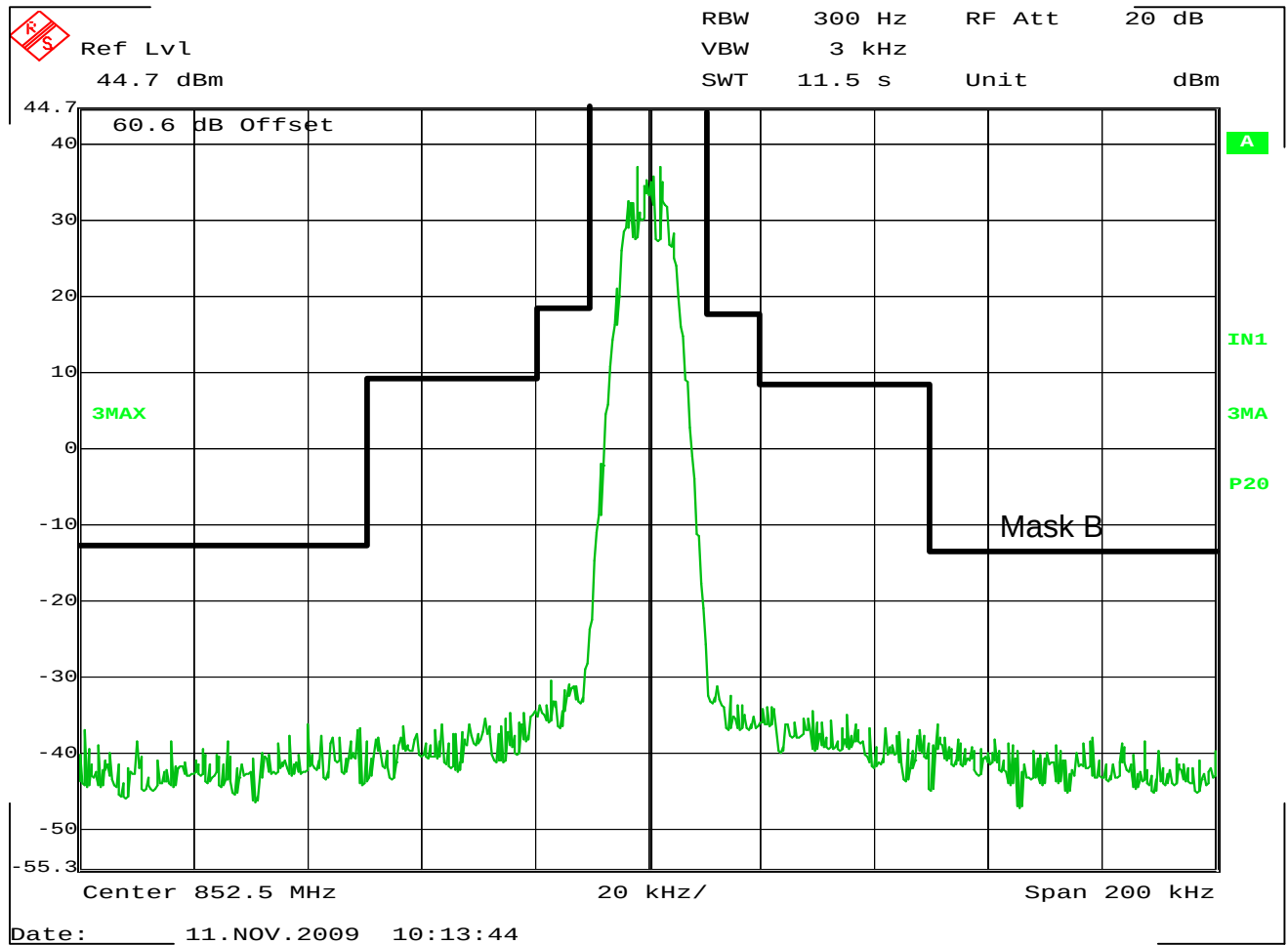
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2.5 kHz at 16 dB over 50% + DPL



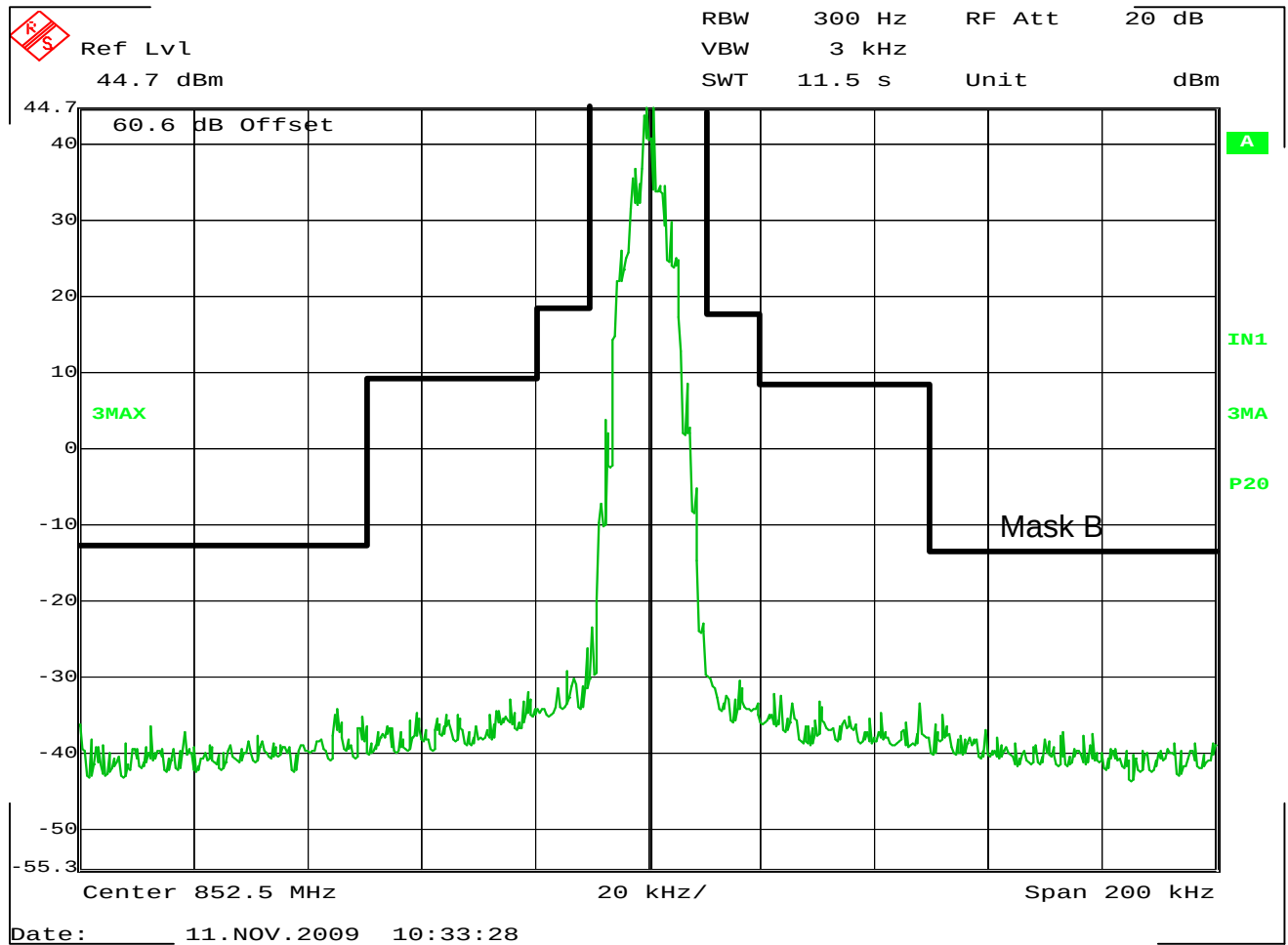
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 852.5MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2.5 kHz at 16 dB over 50% + TPL



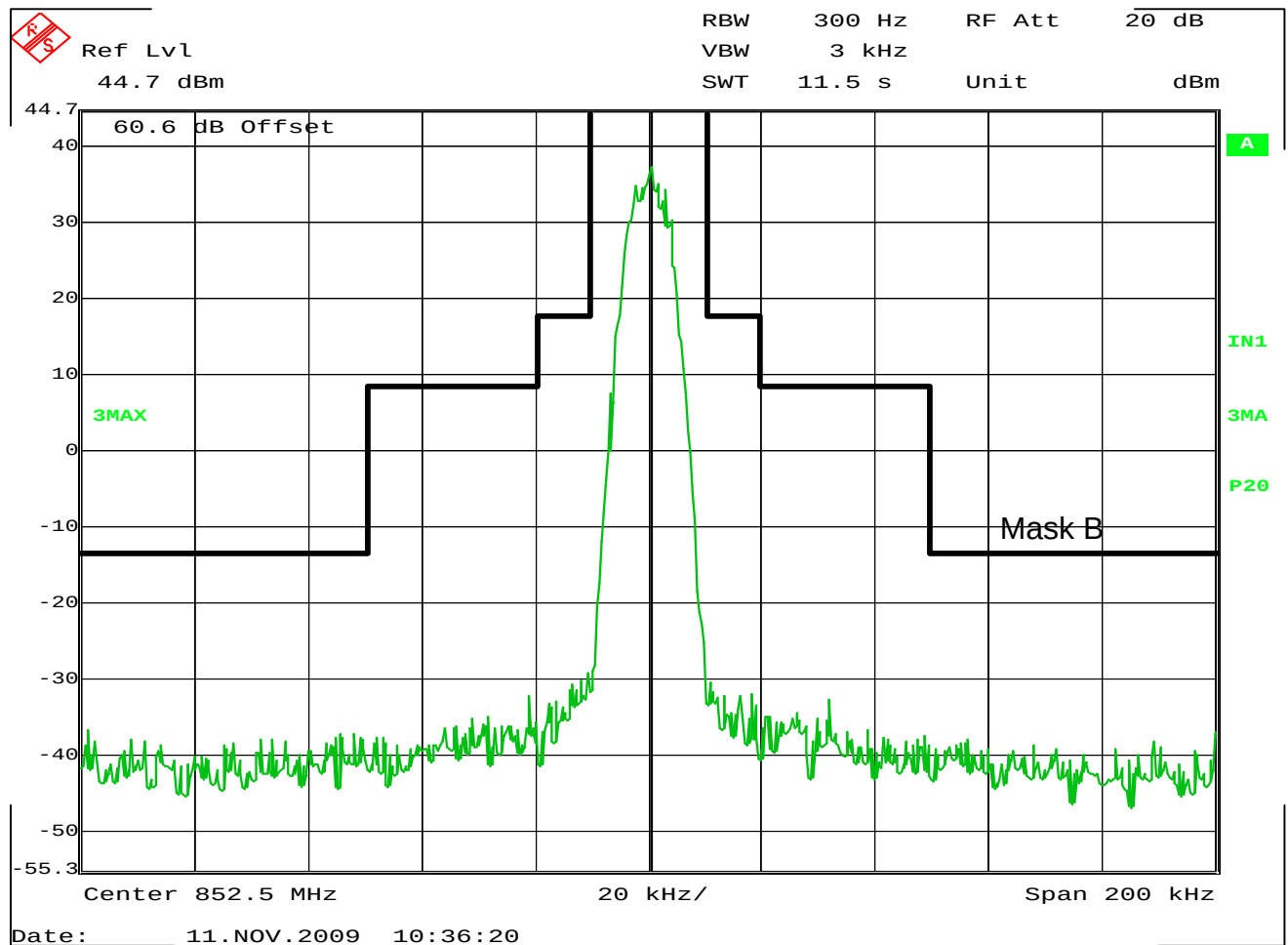
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : DTMF



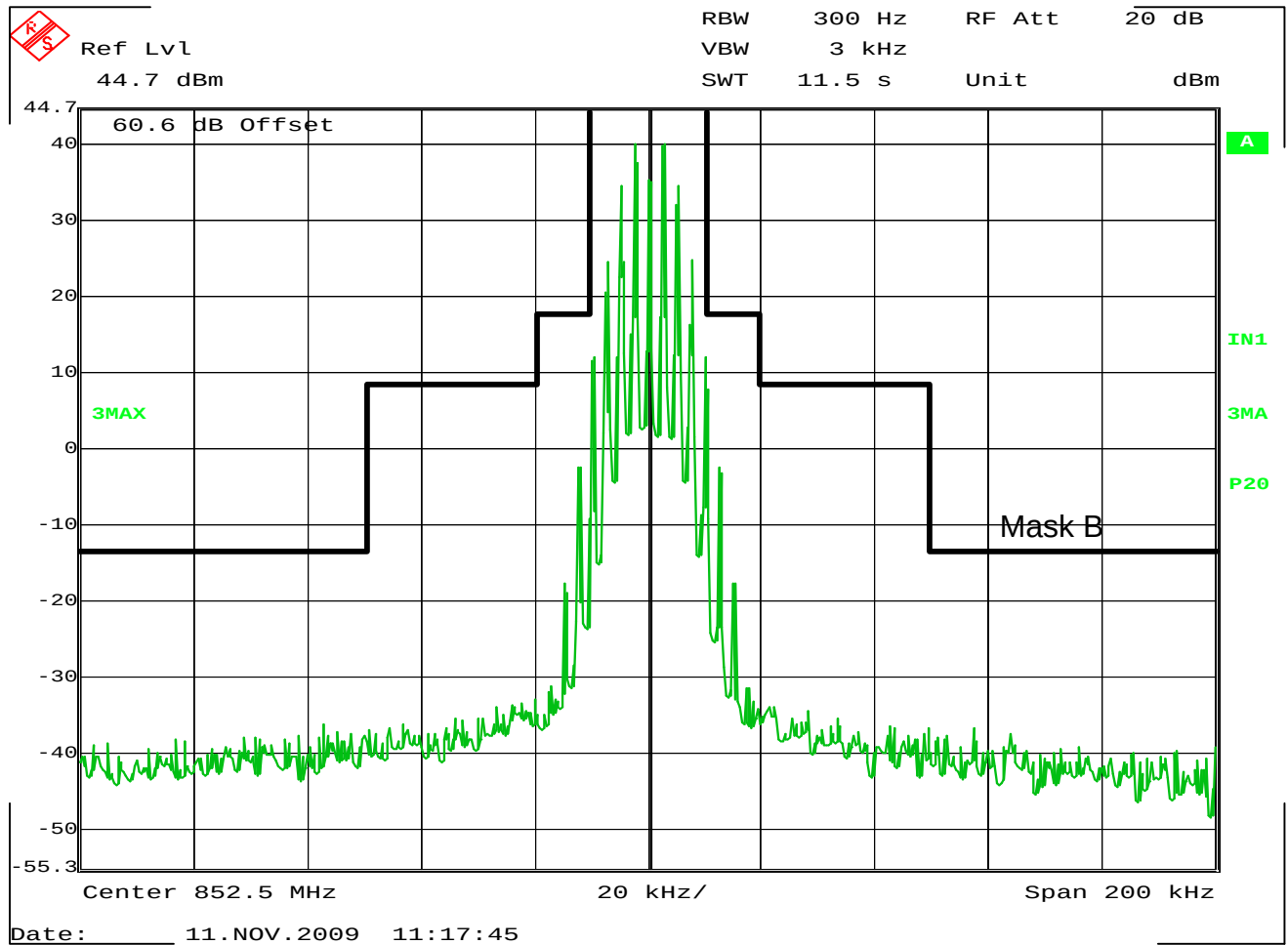
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : DTMF + DPL



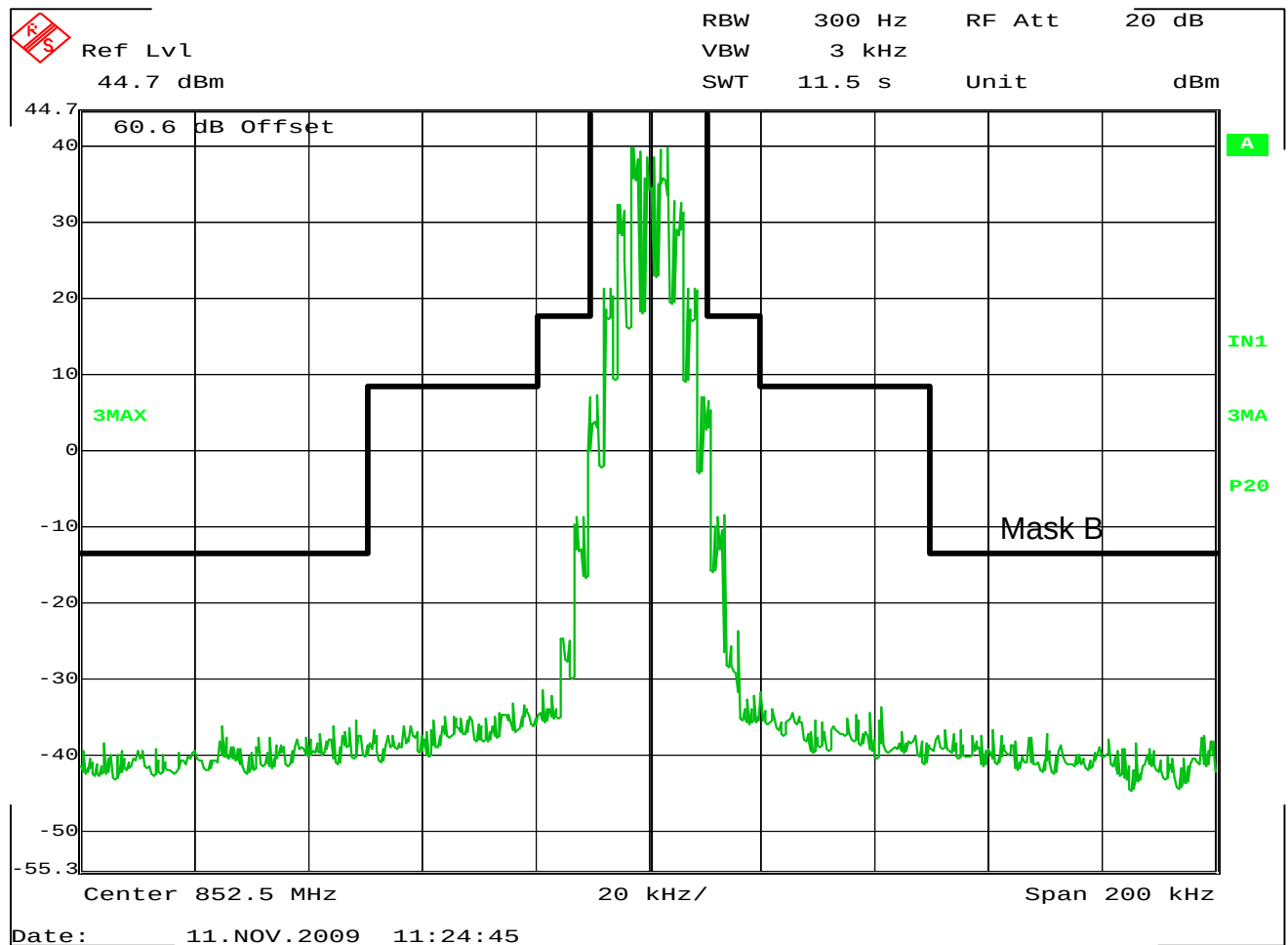
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : DTMF + TPL



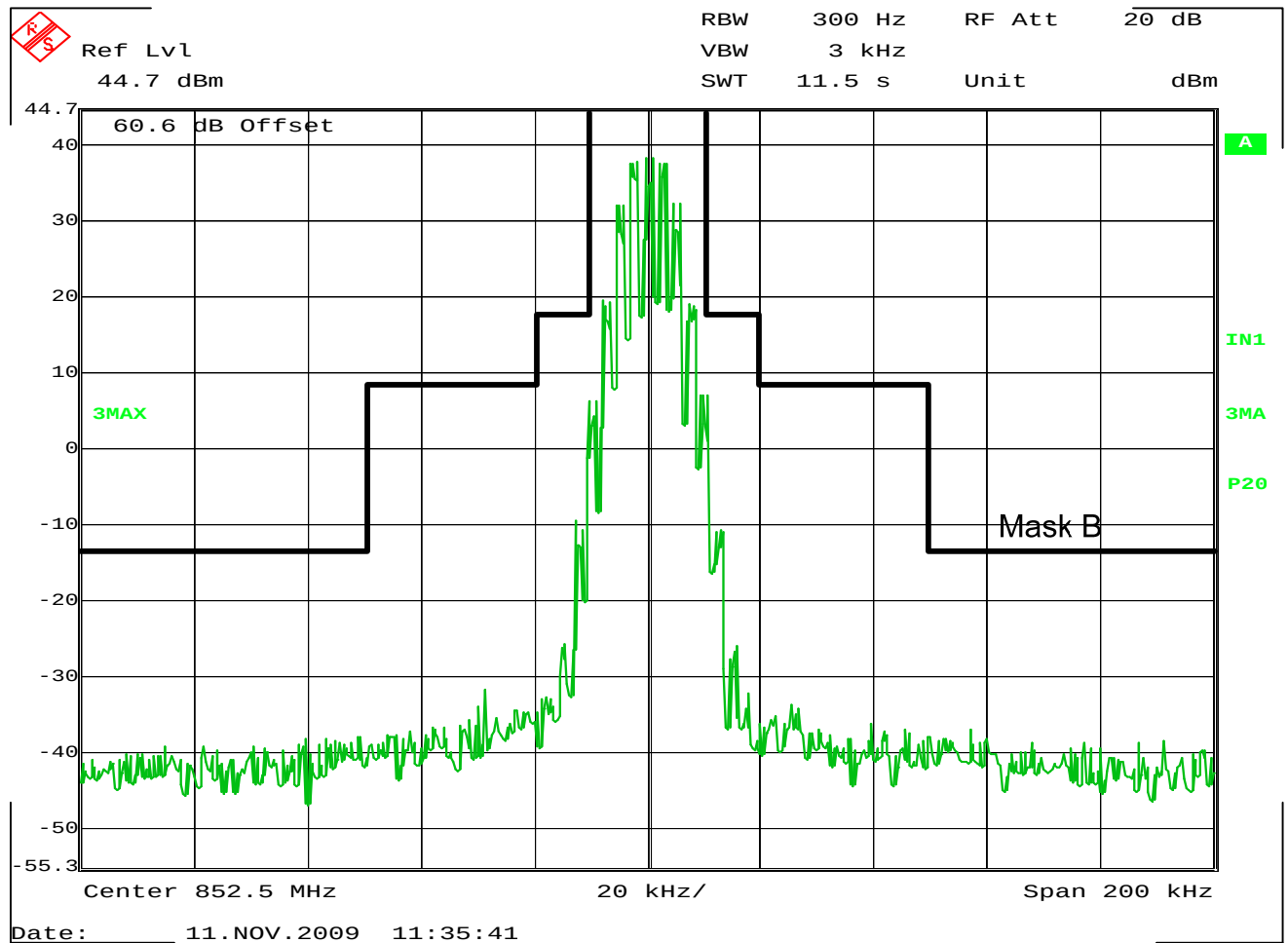
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : FSK



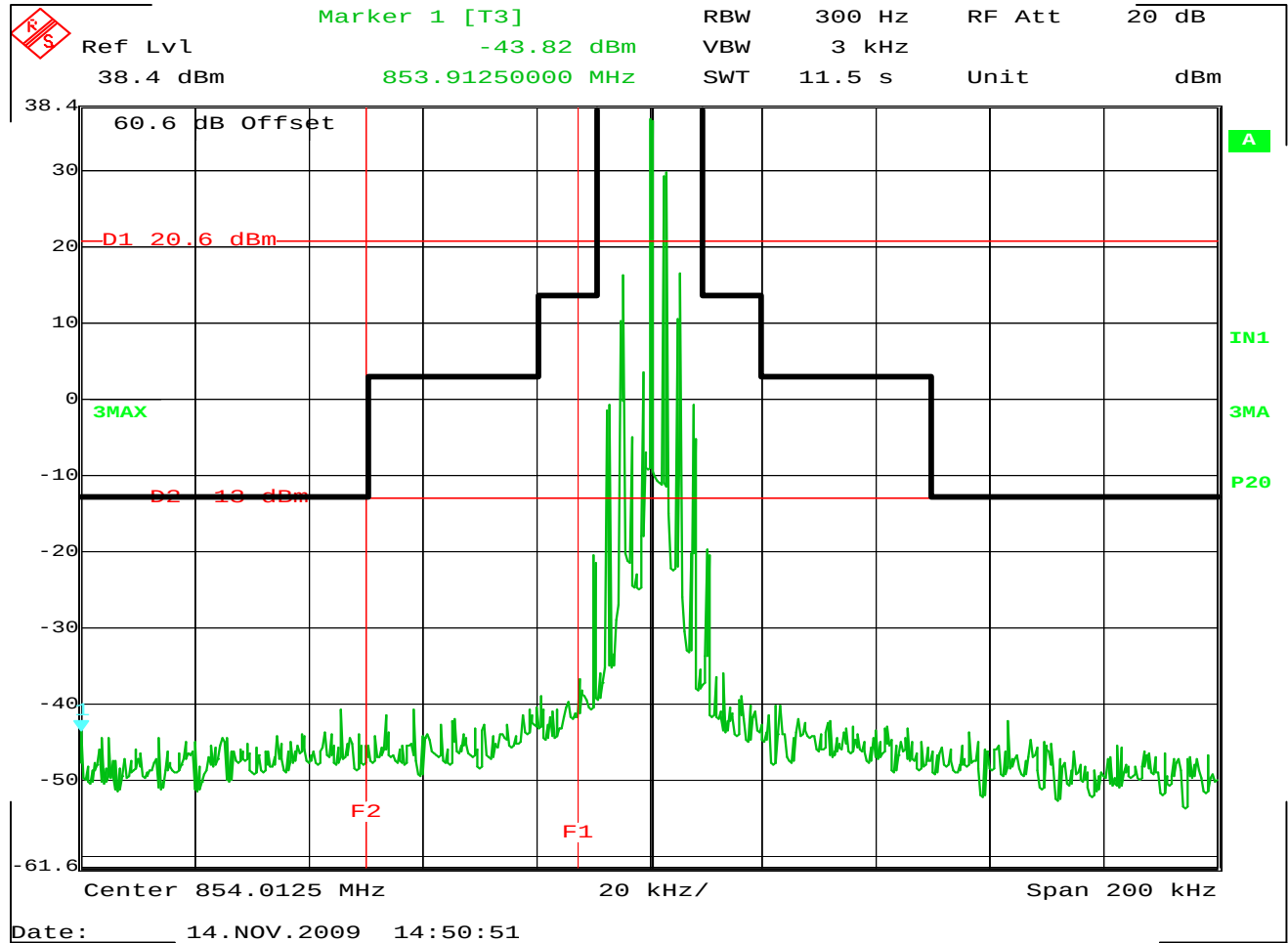
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : FSK + DPL



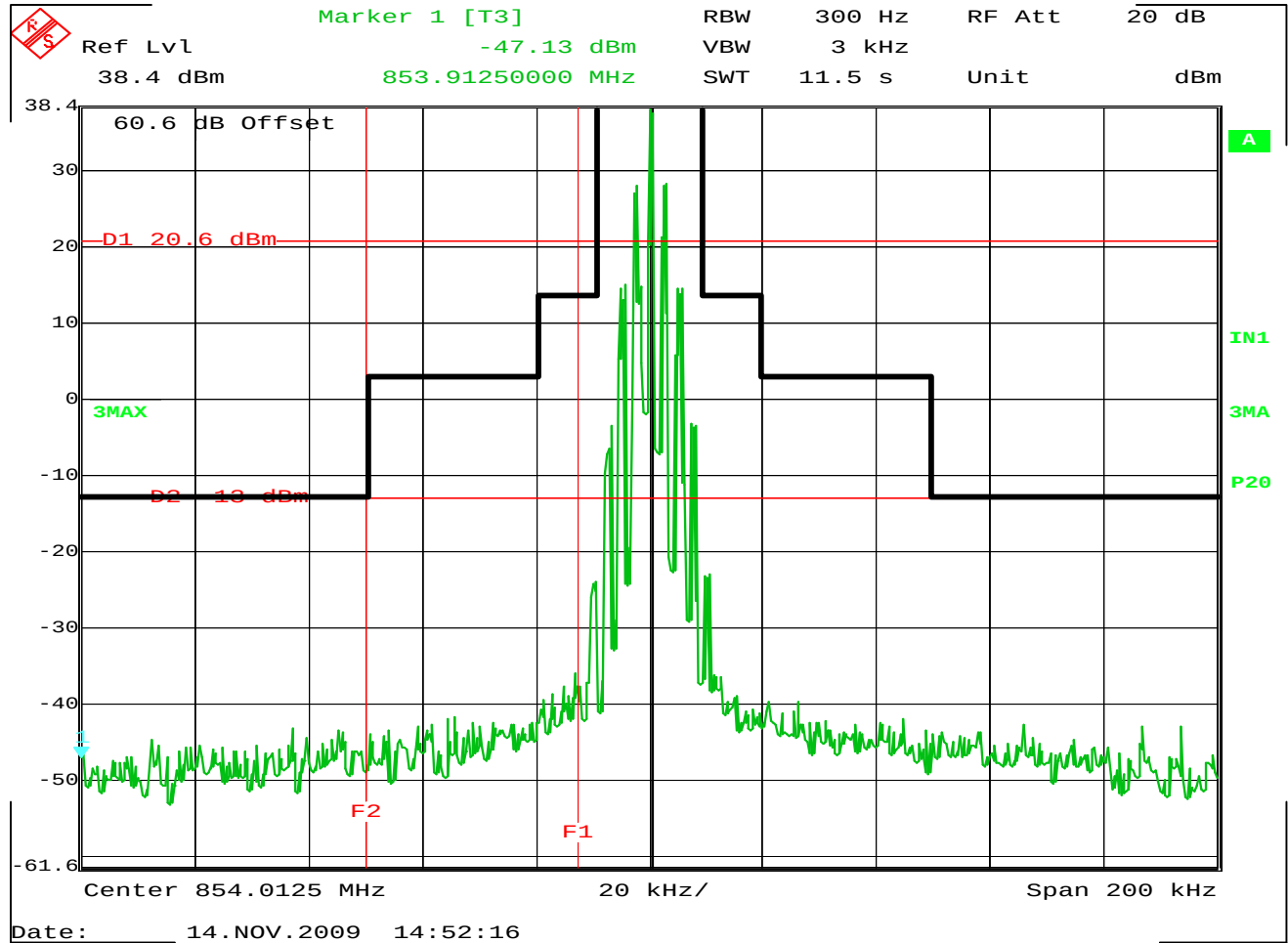
IC RSS 119 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
 MODEL : AAM27VMR9JA7M
 SERIAL NO. : 484TKS3462
 TEST MODE : Transmit
 FREQUENCY : 852.5MHz
 POWER LEVEL : 42W
 CHANNEL SPACING : 25kHz
 NOTES : Mask B
 : FSK + TPL



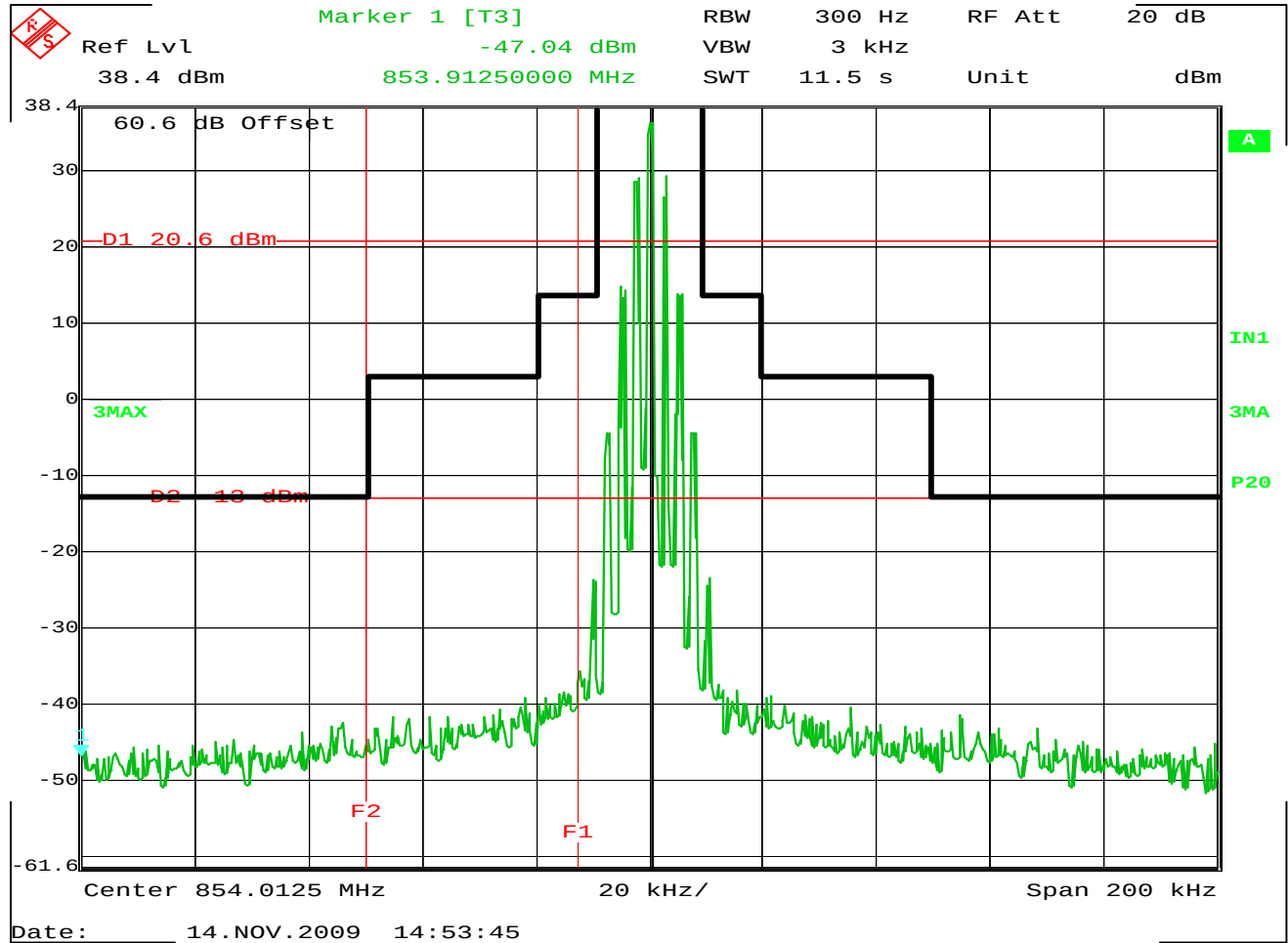
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



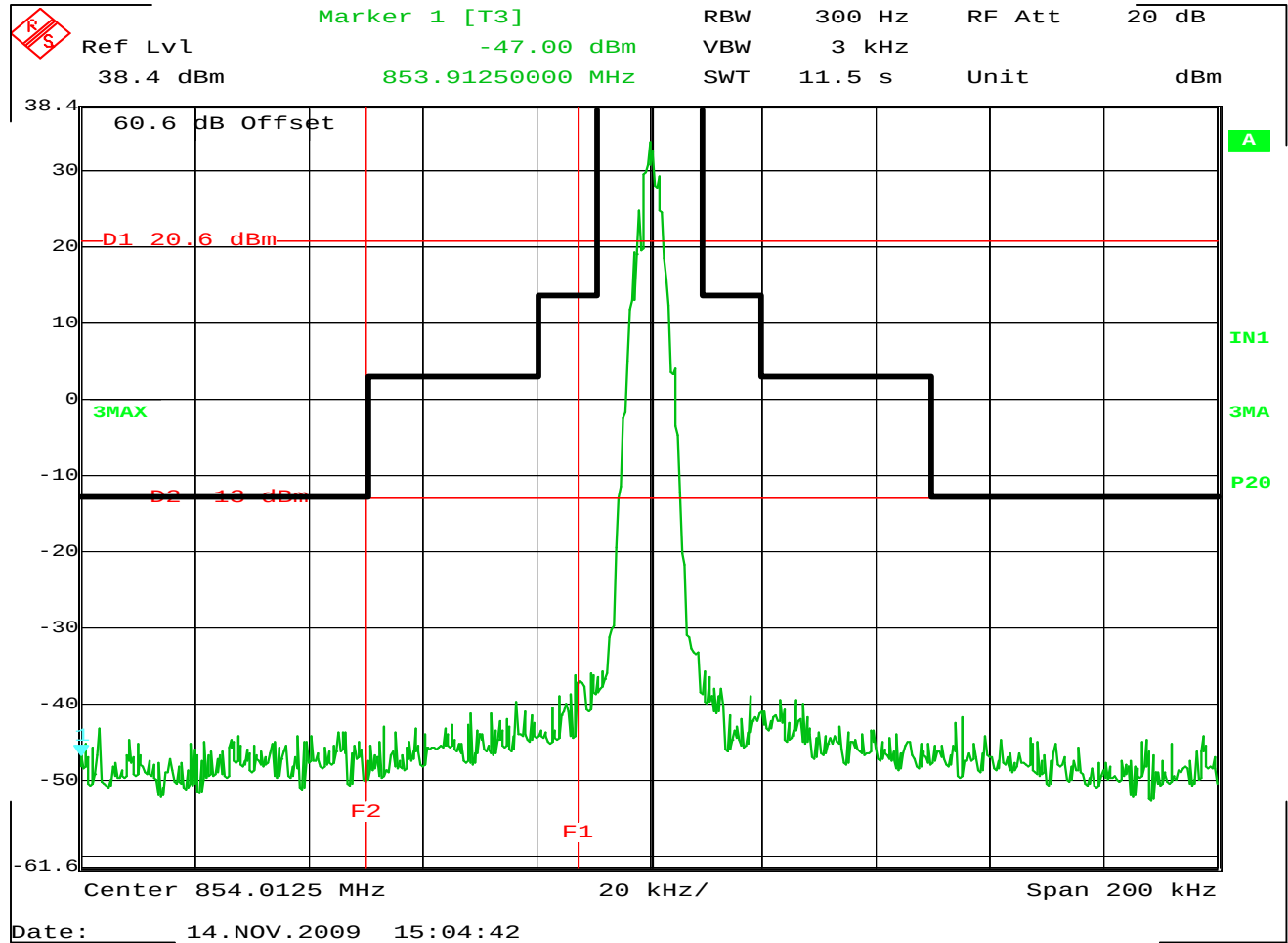
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + DPL



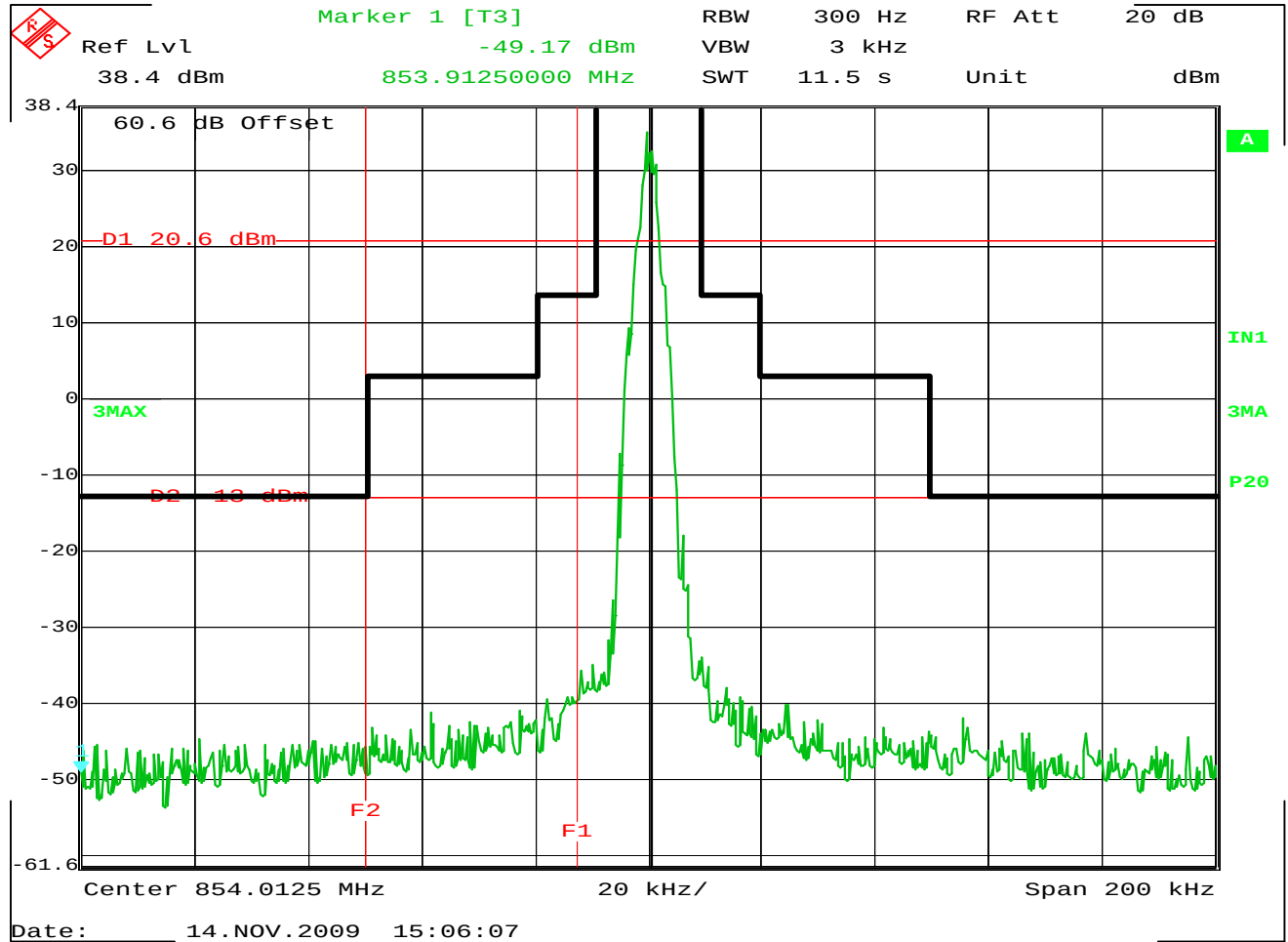
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + TPL



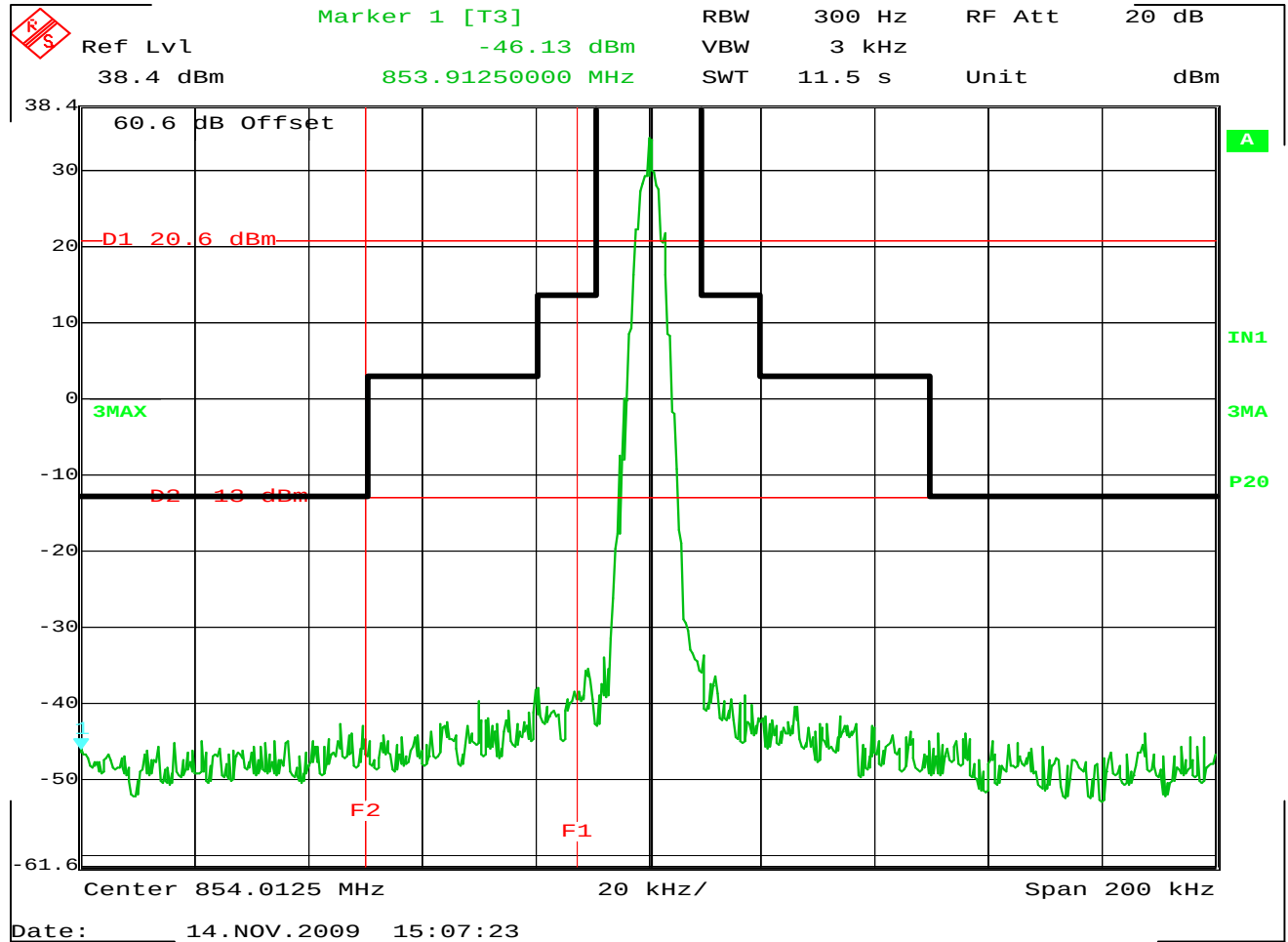
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF



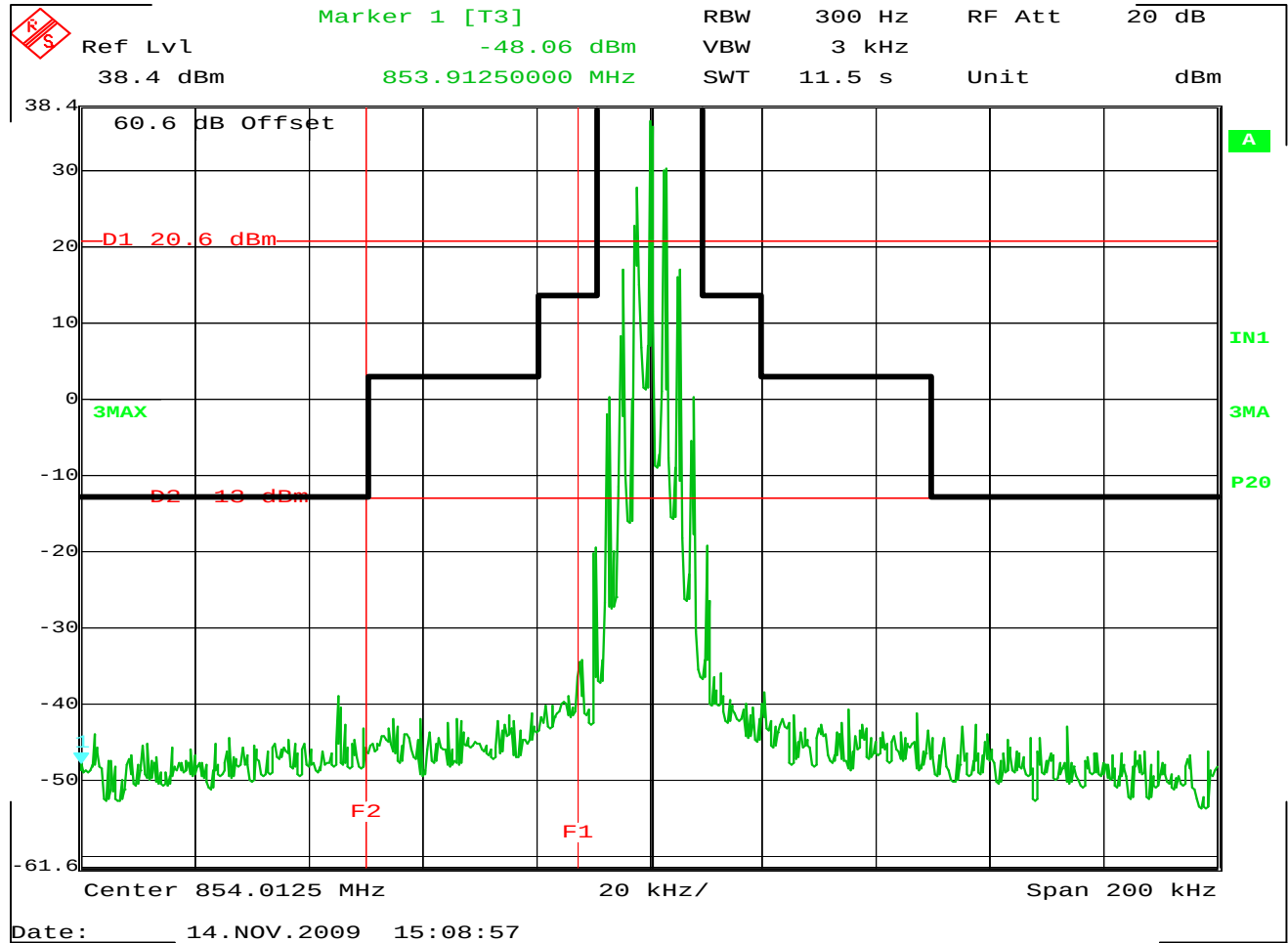
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + DPL



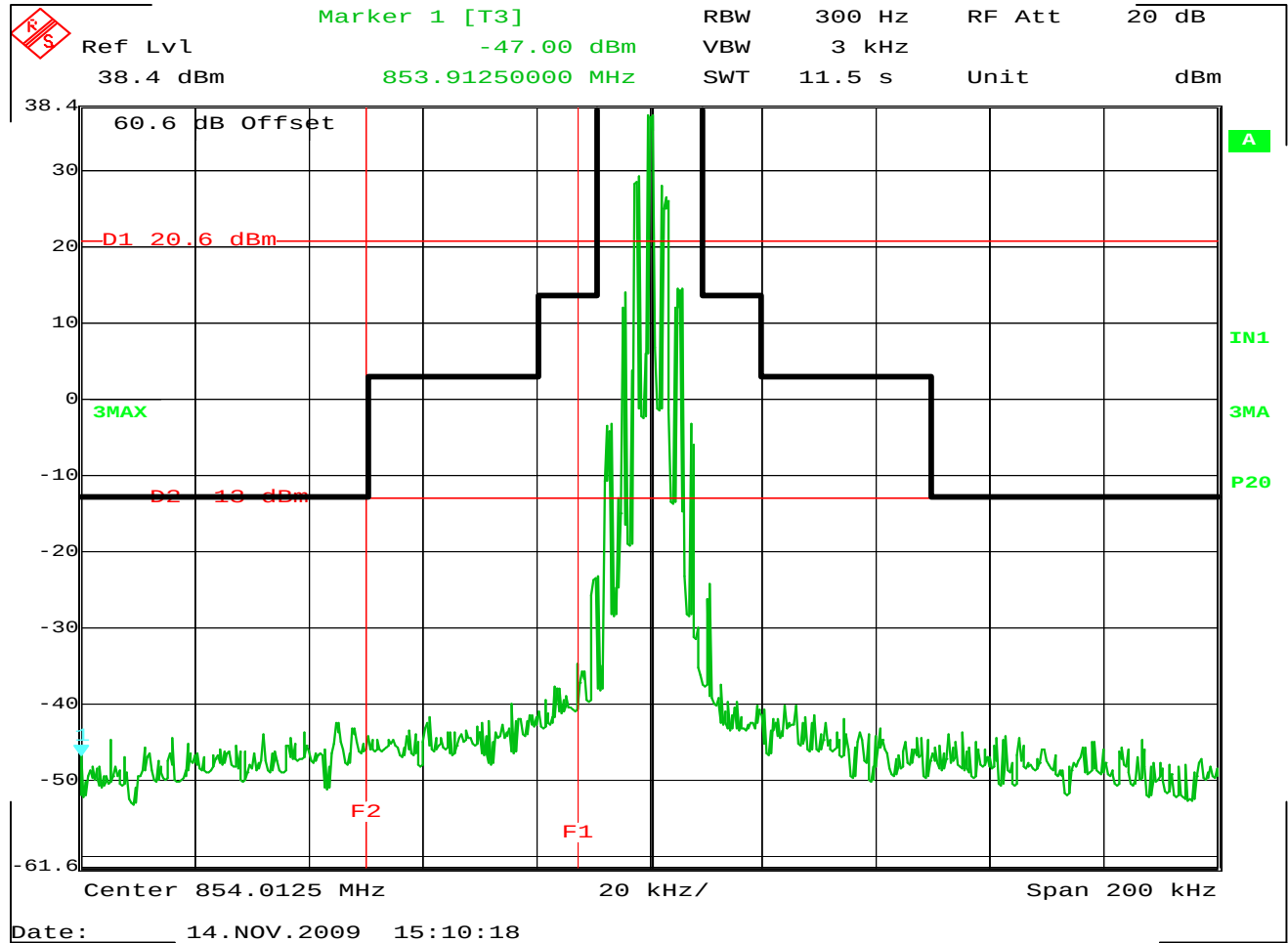
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + TPL



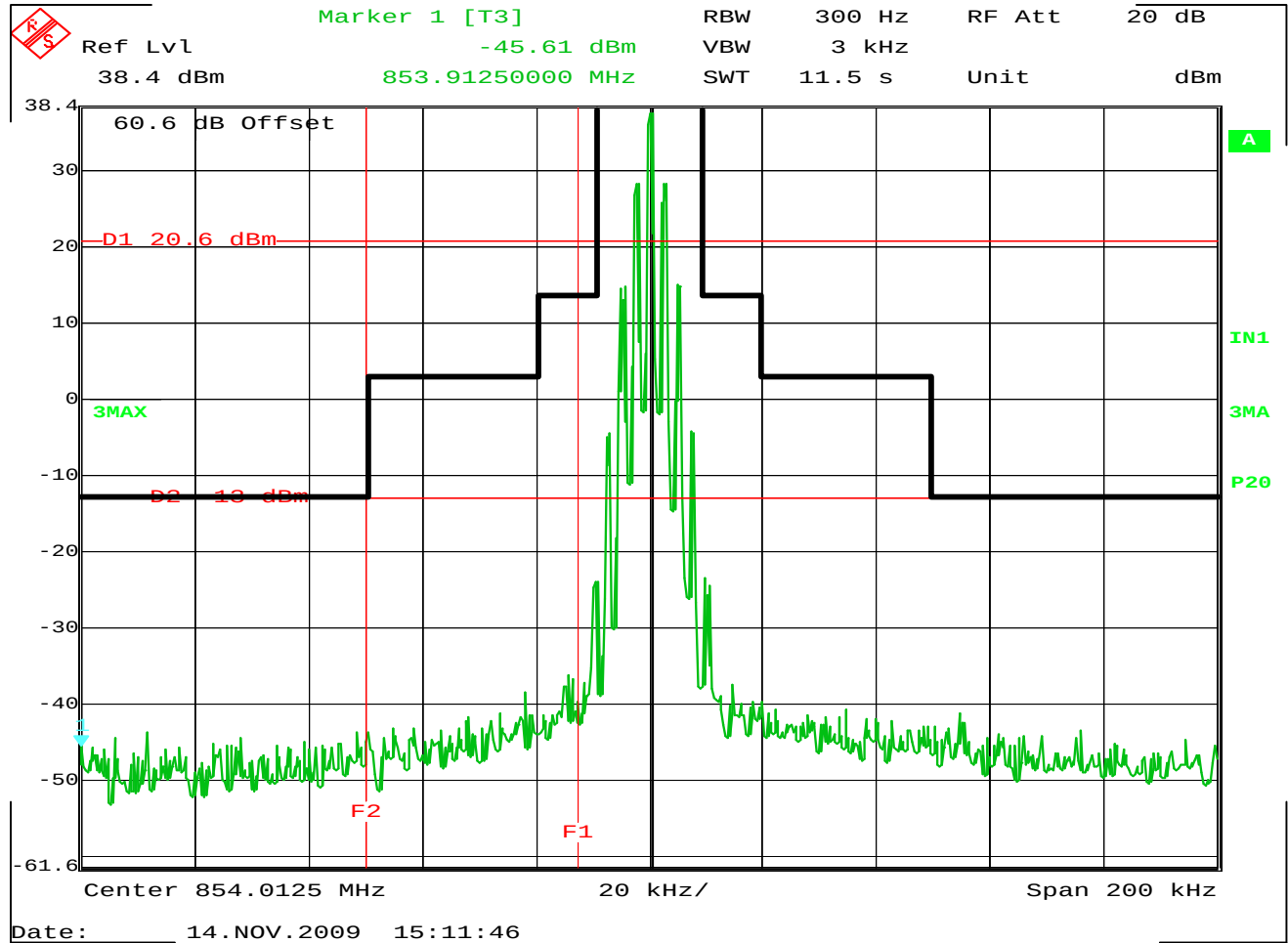
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK



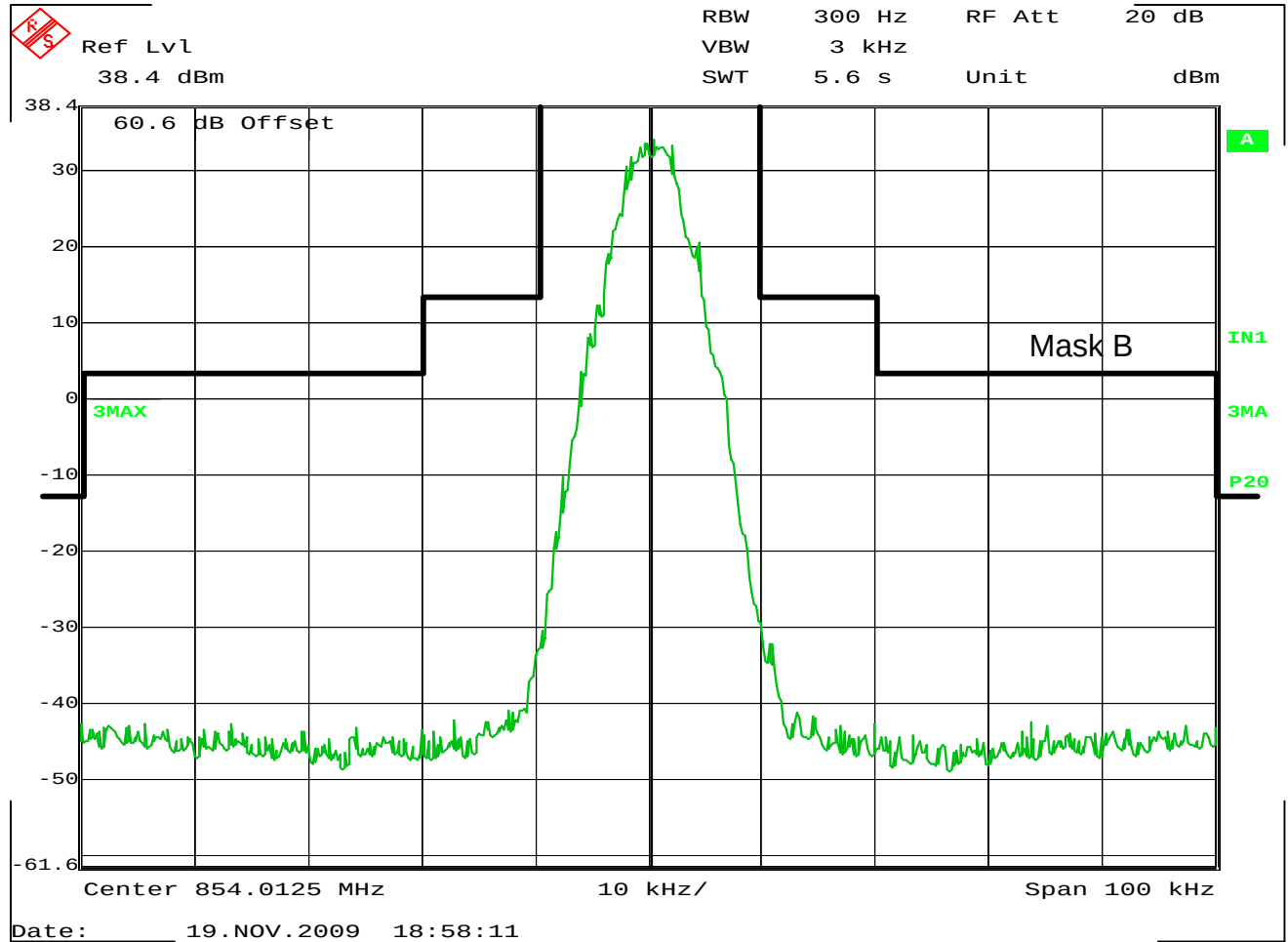
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + DPL



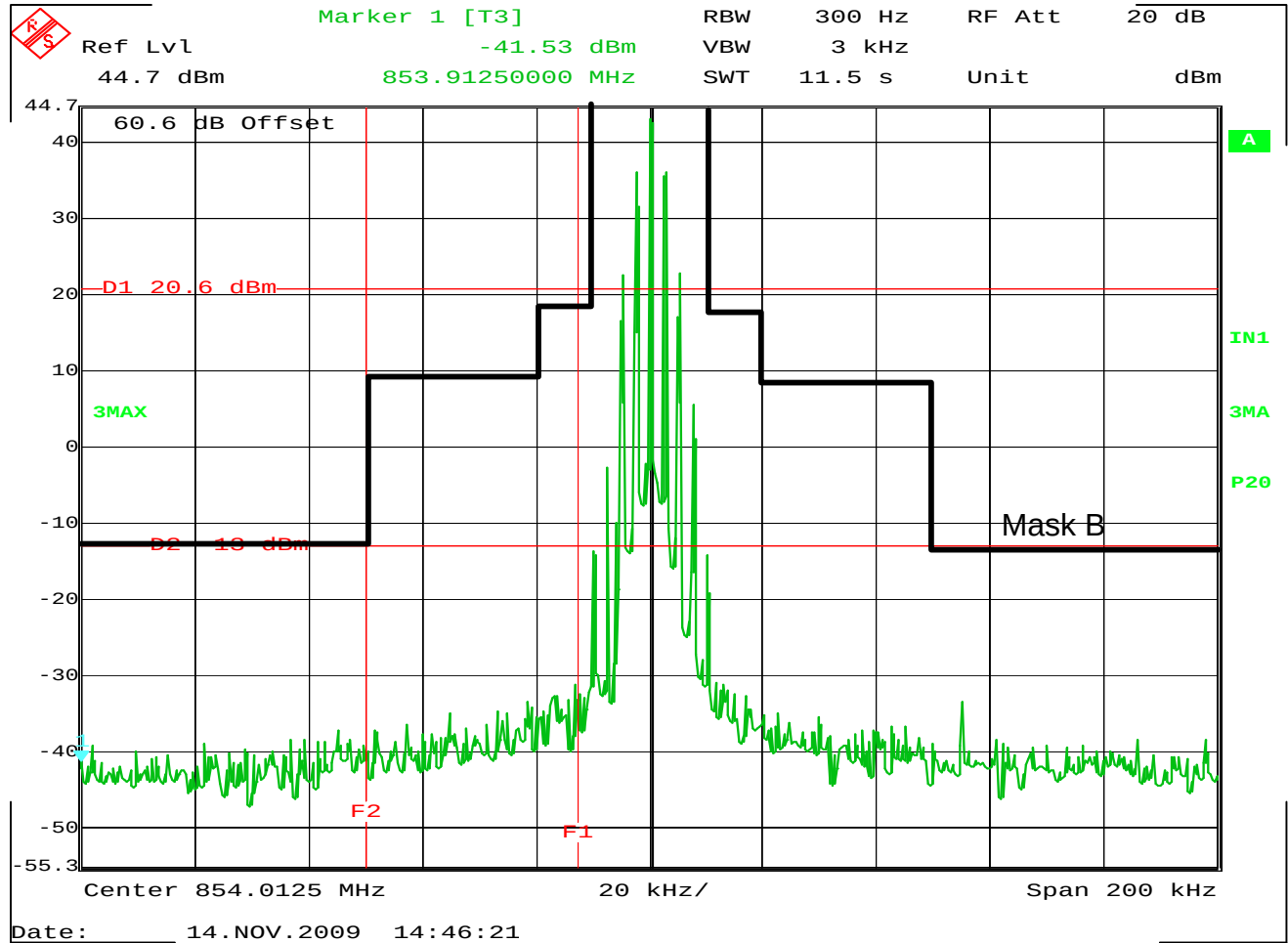
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + TPL



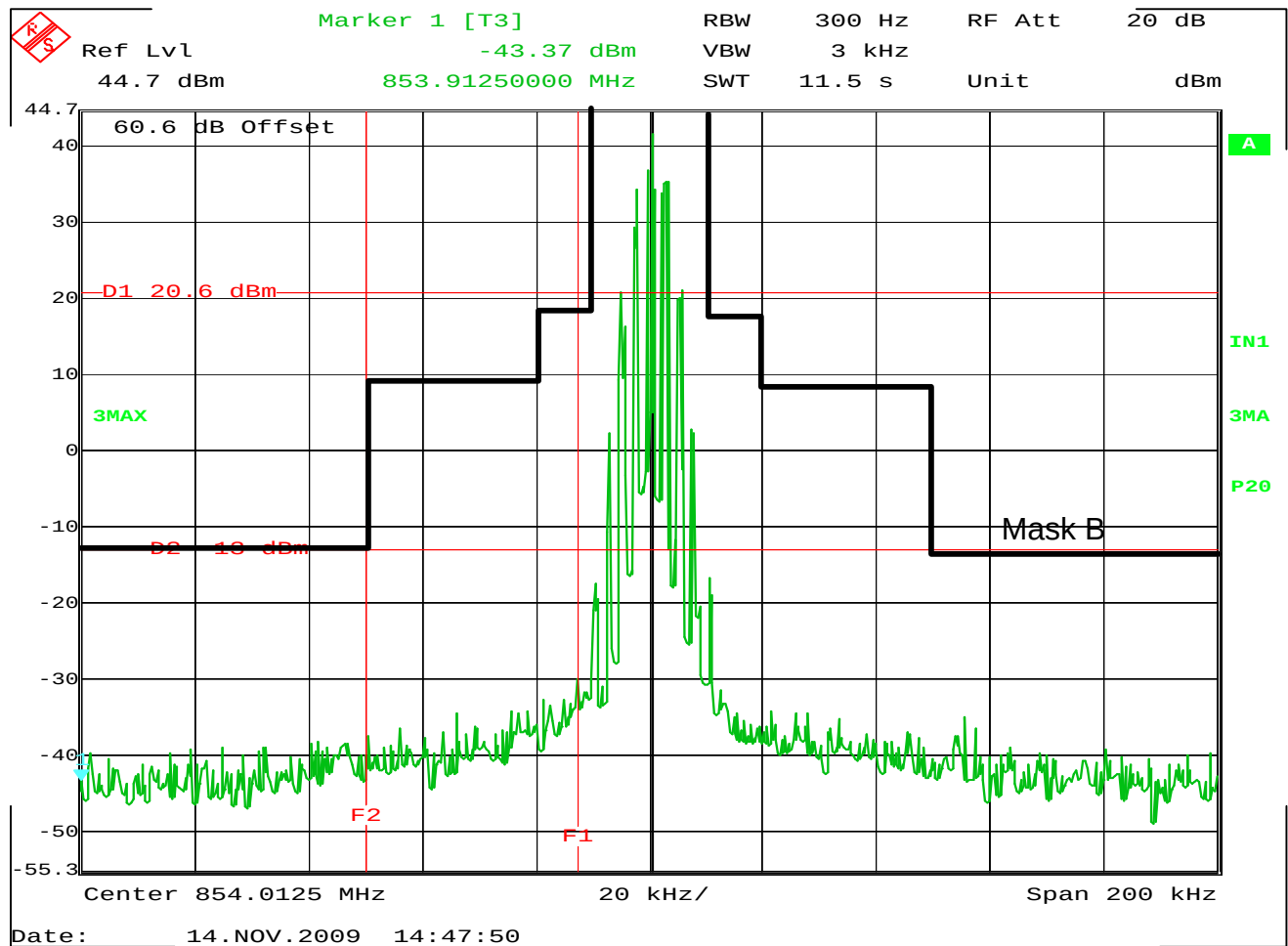
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: Digital Modulation



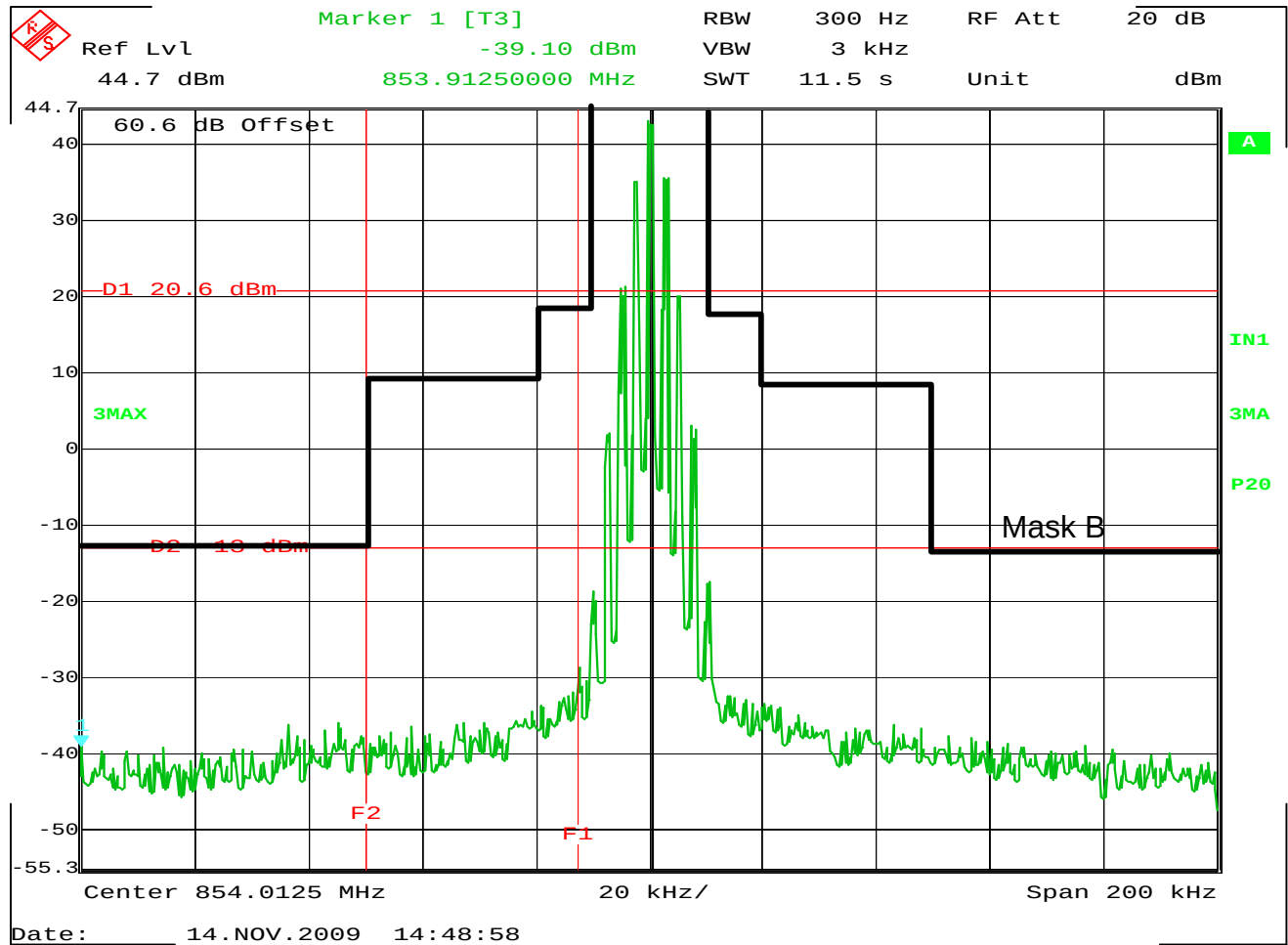
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



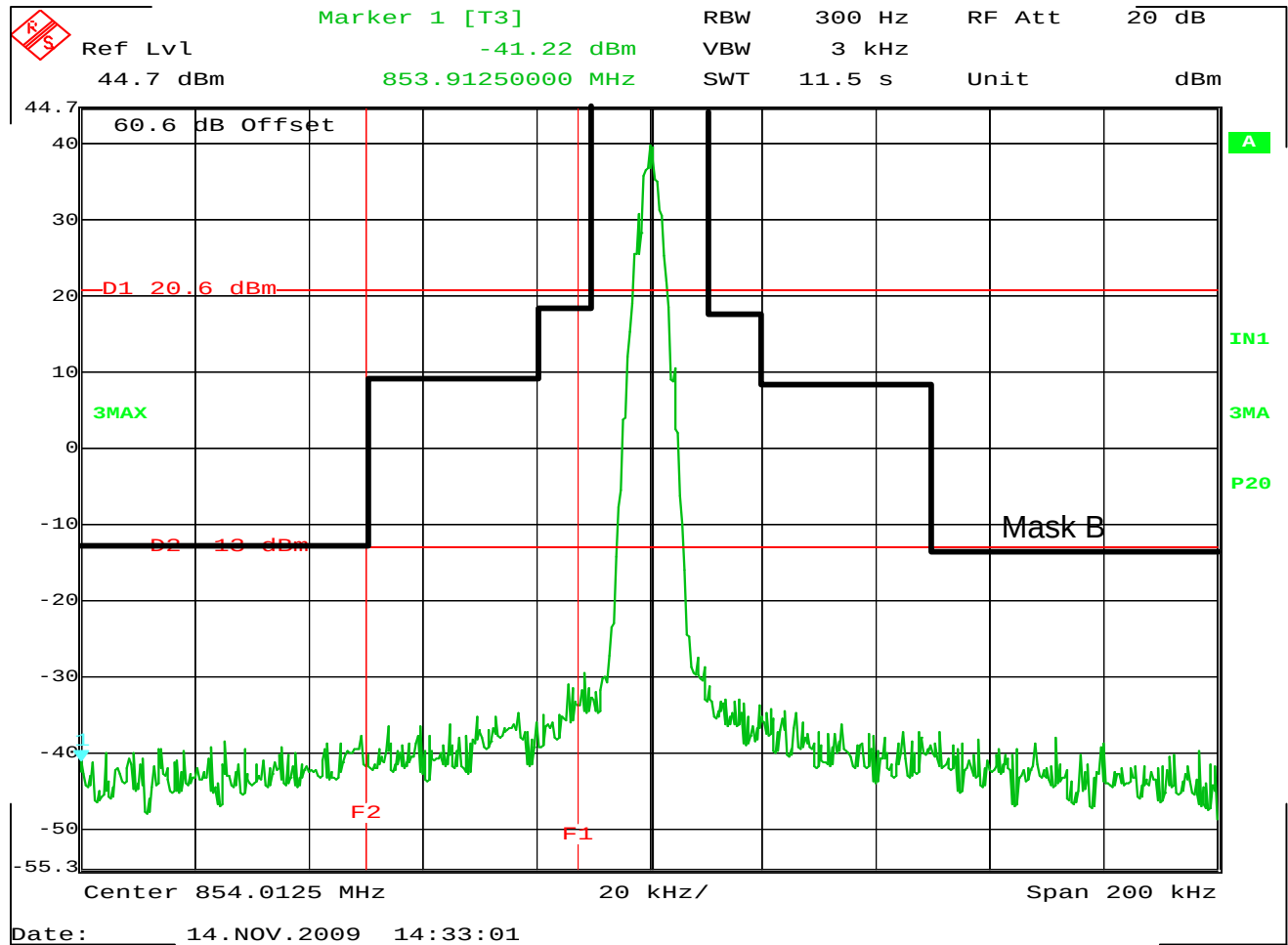
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + DPL



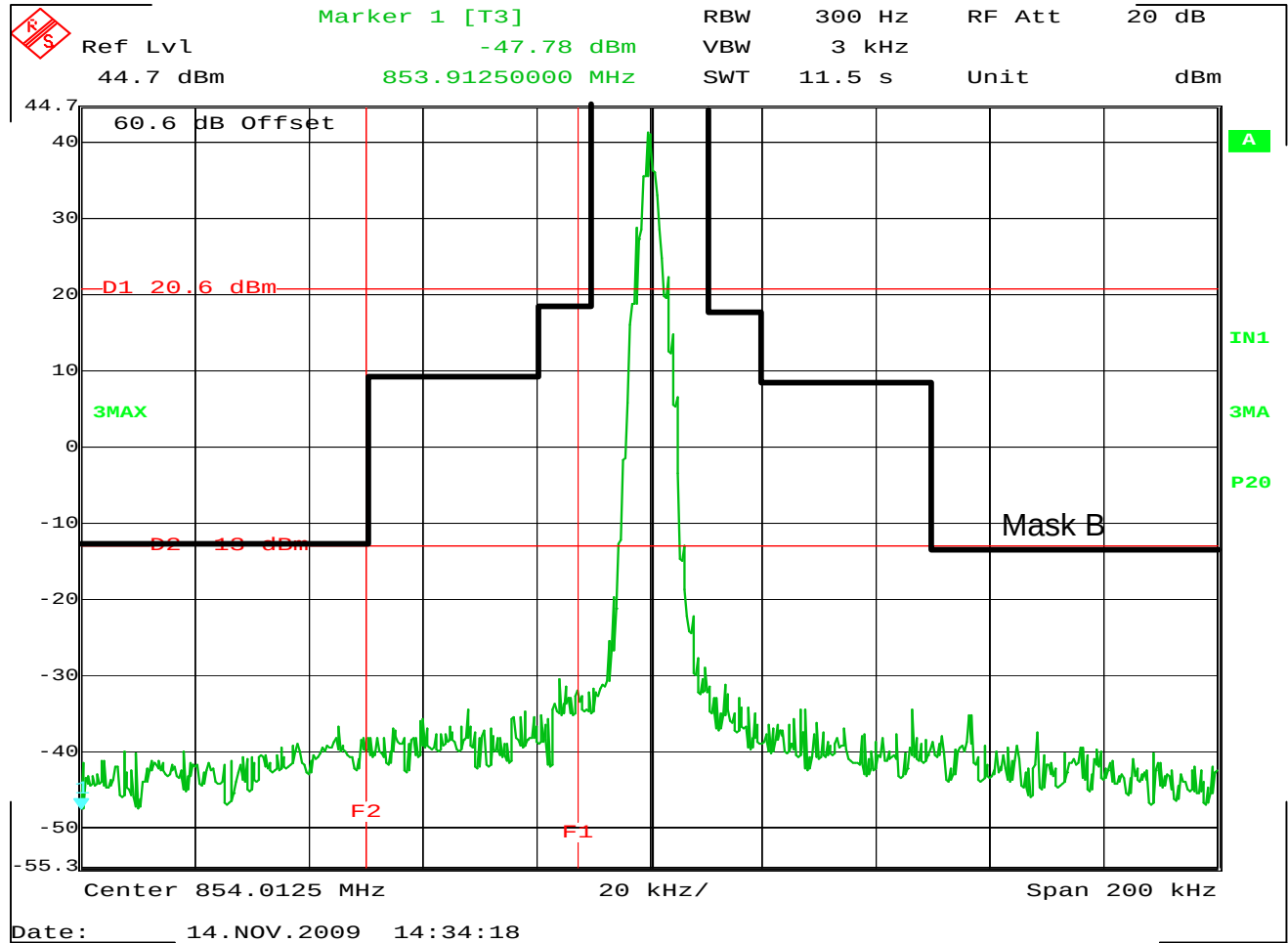
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + TPL



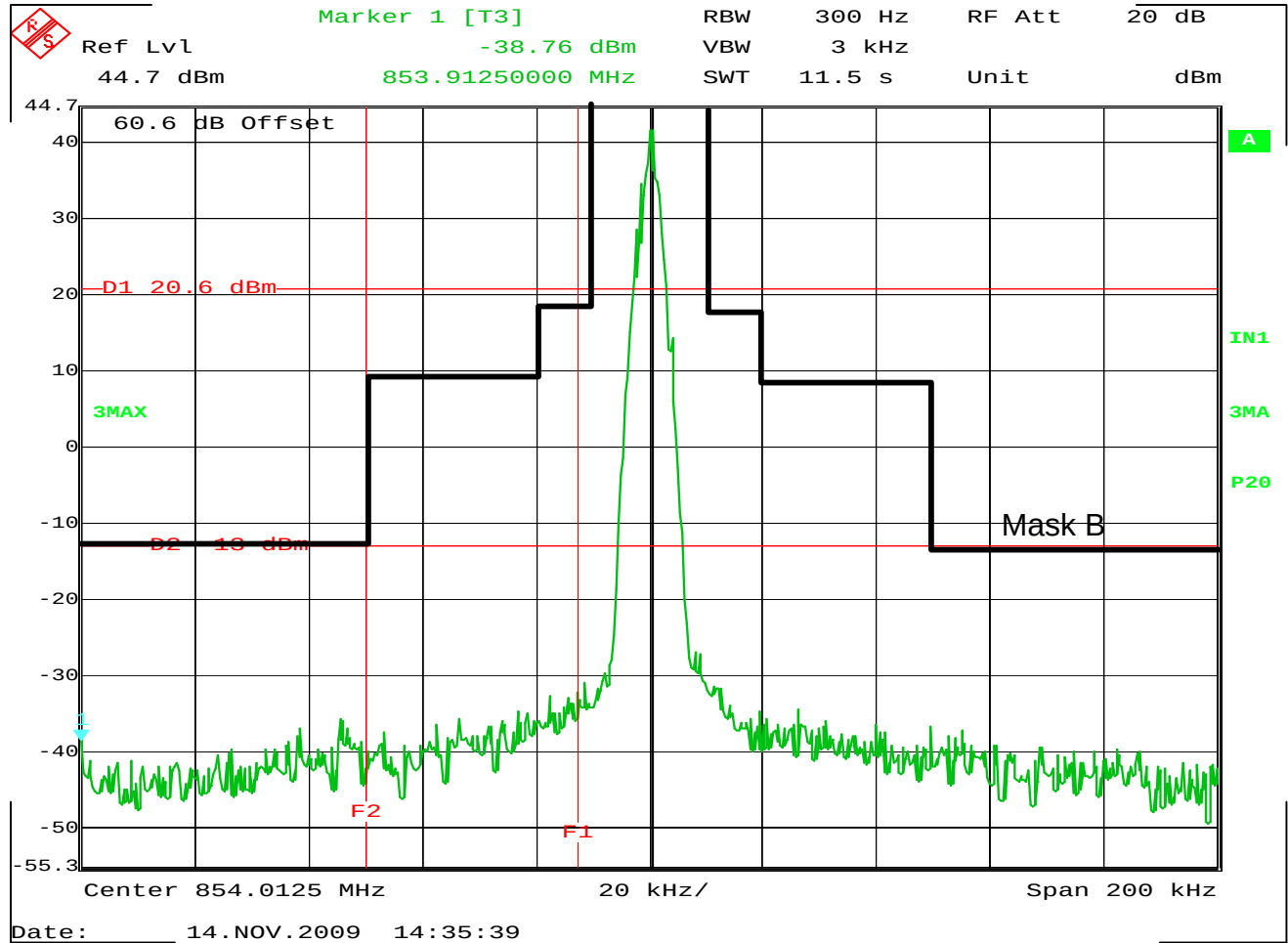
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF



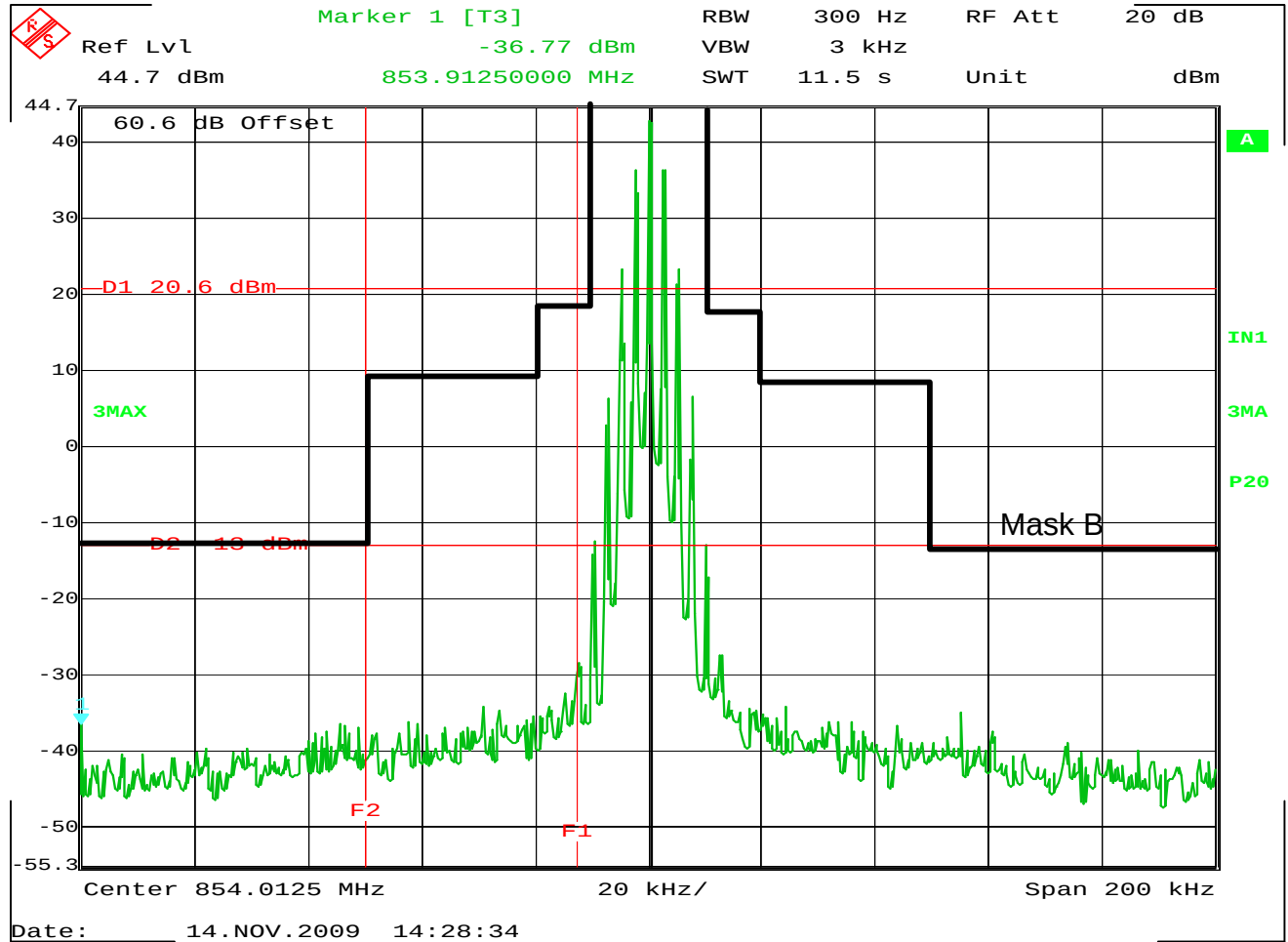
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + DPL



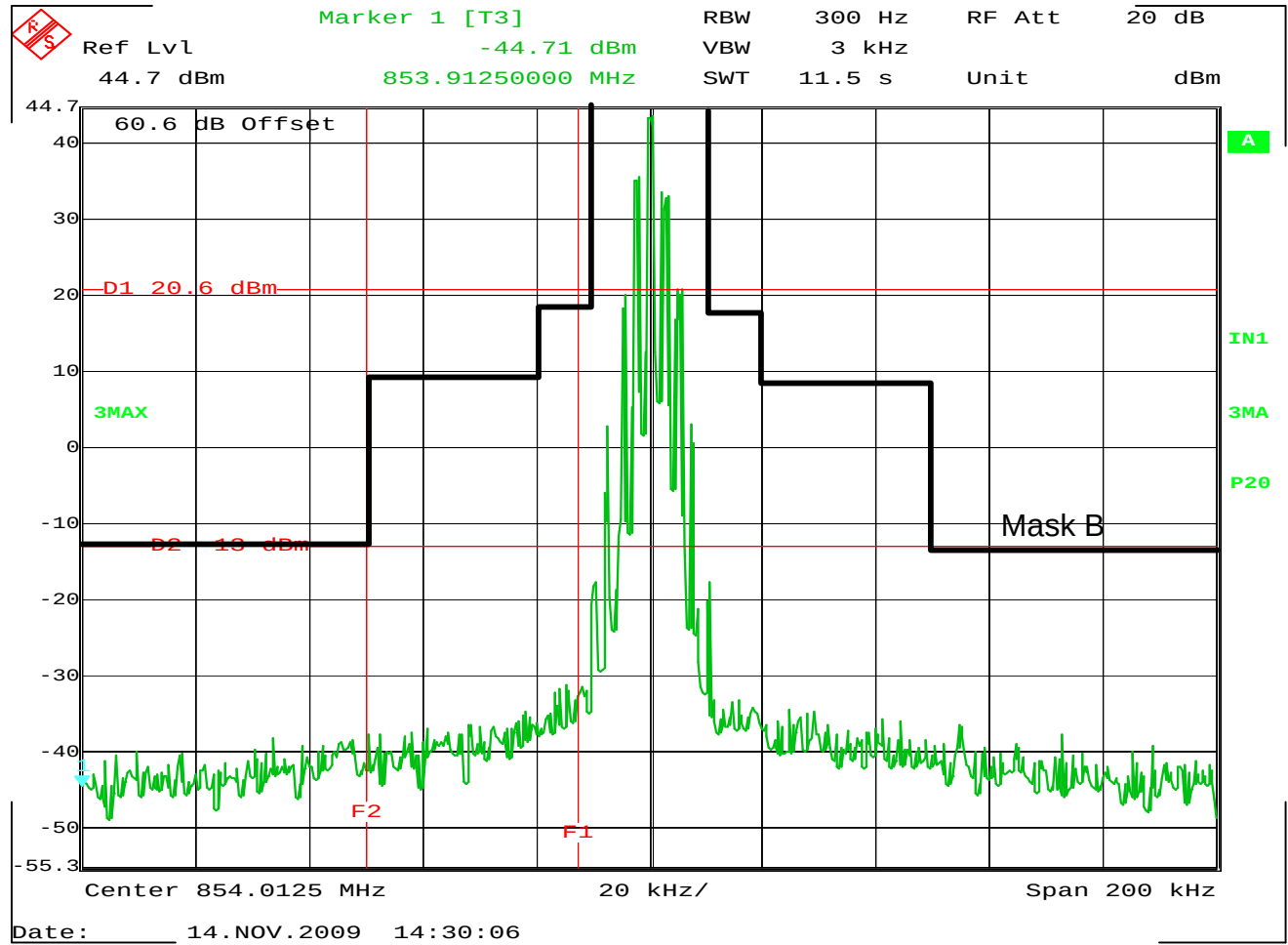
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + TPL



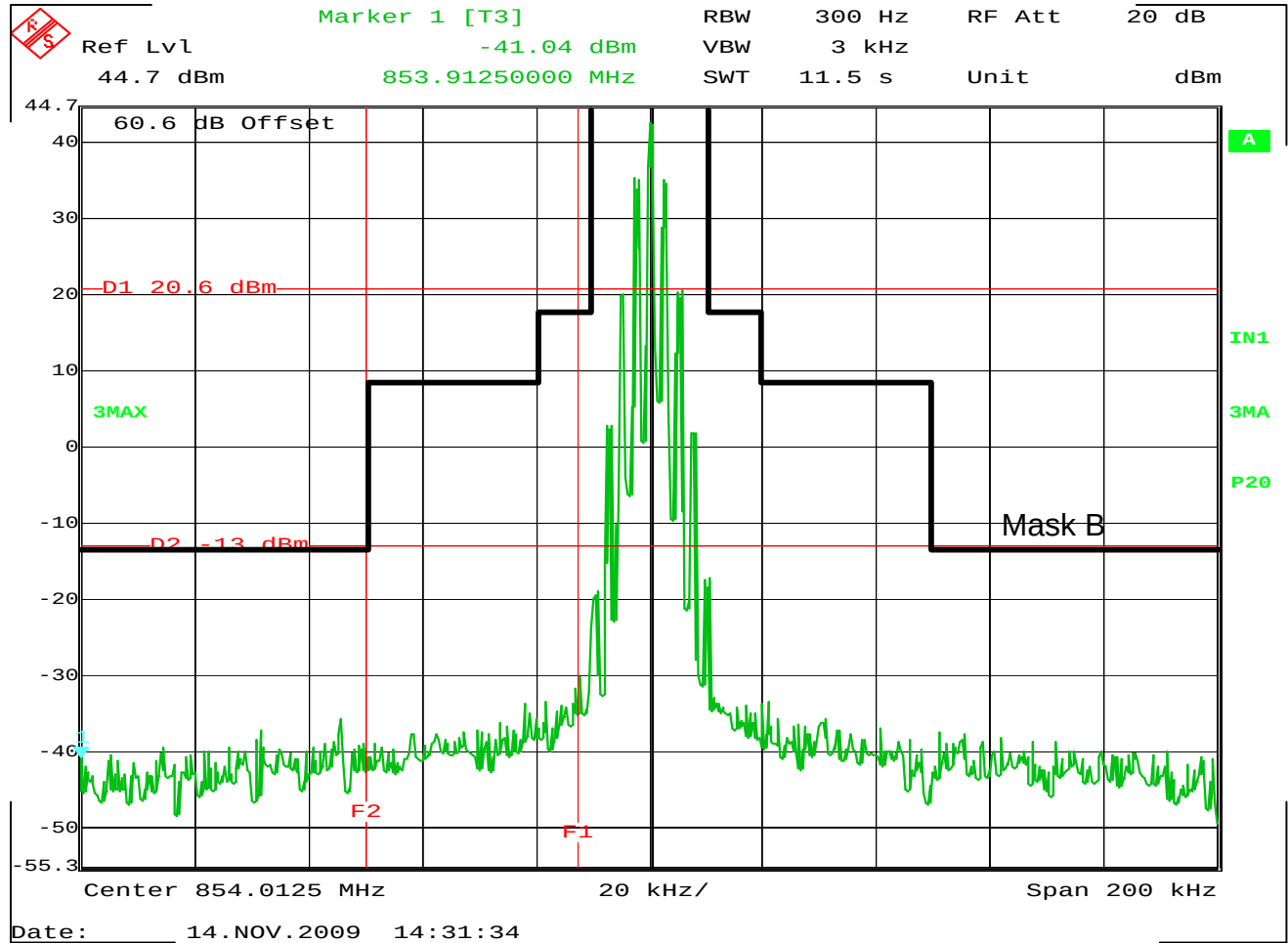
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK



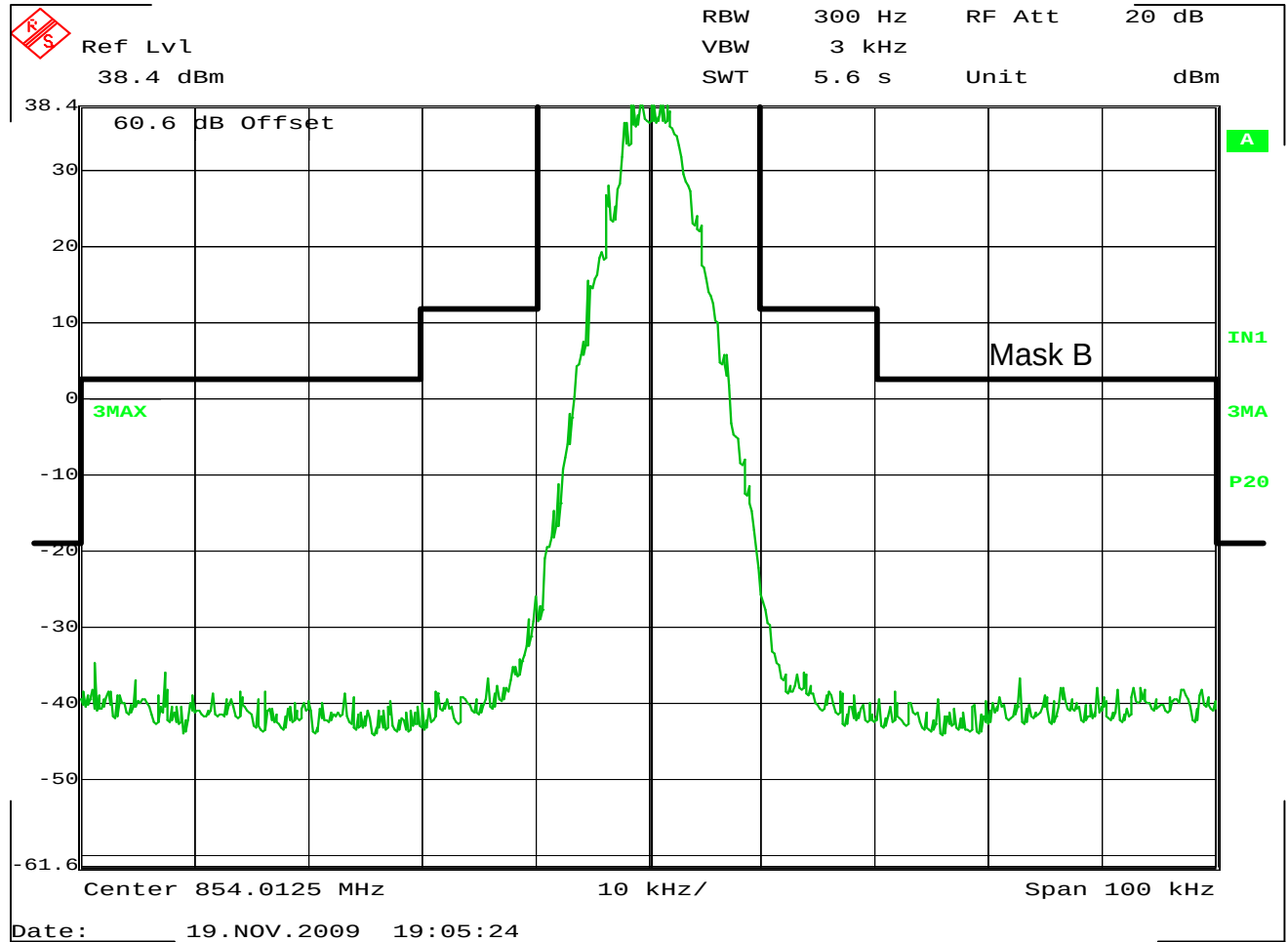
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + DPL



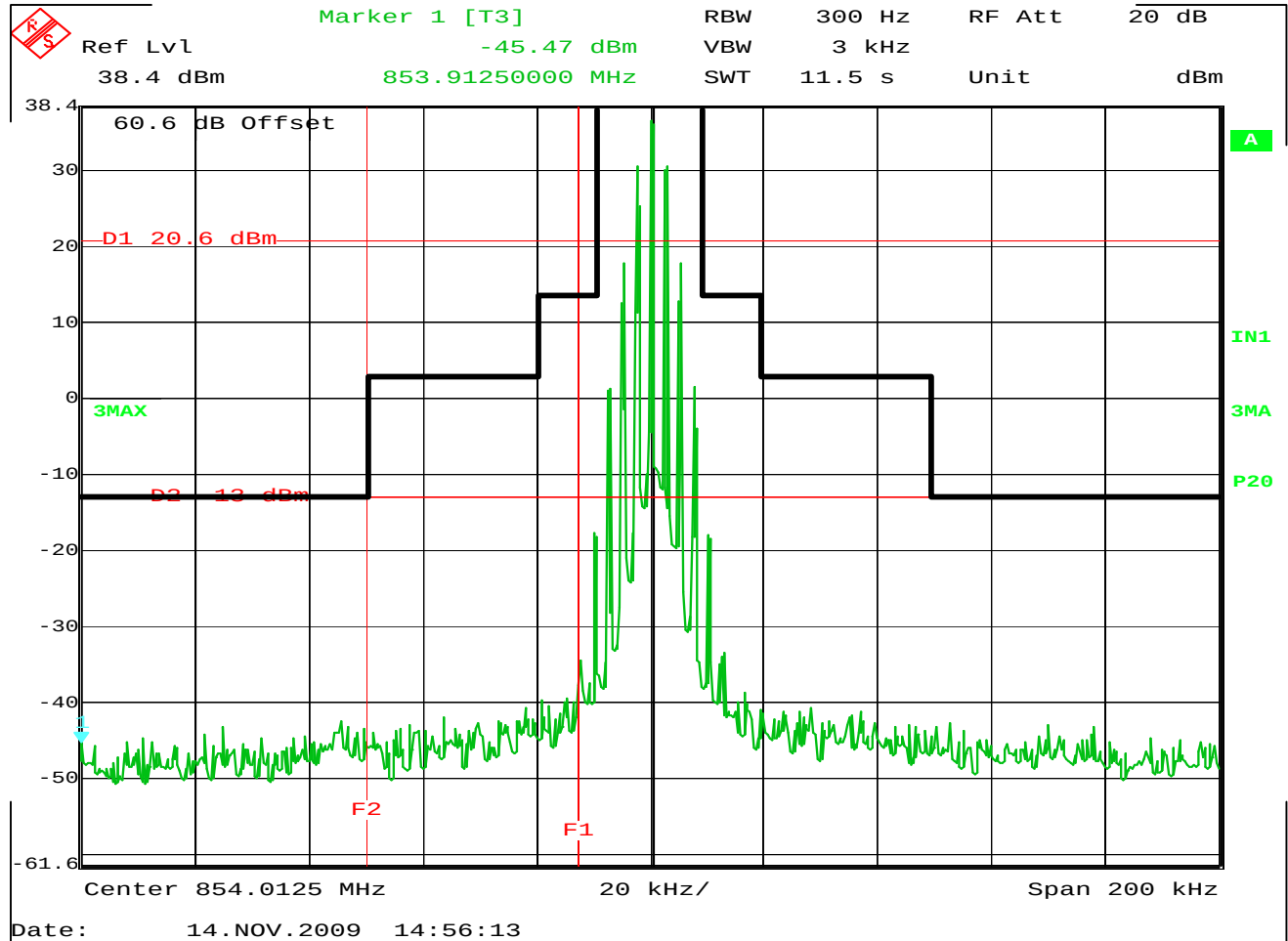
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + TPL



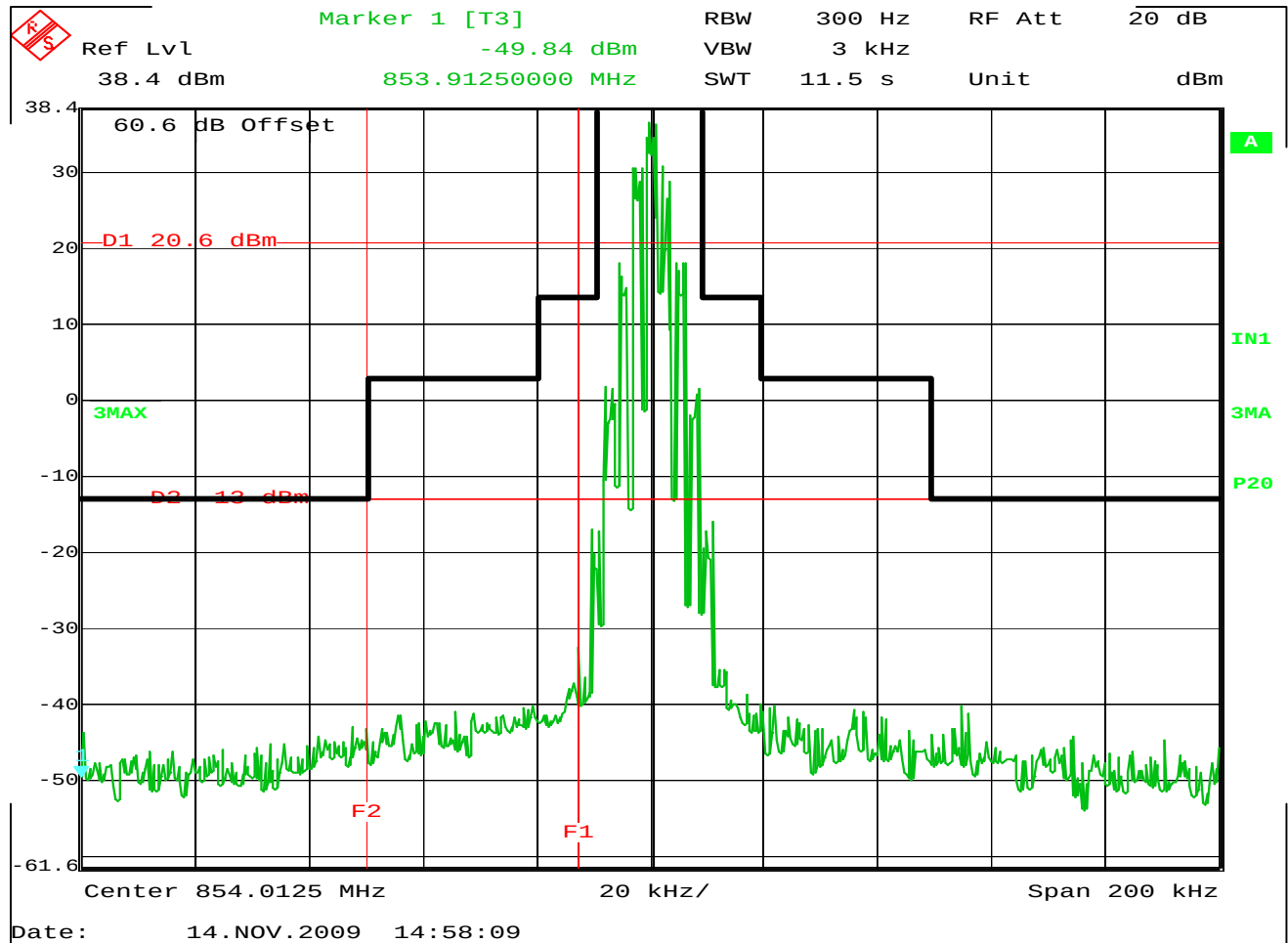
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: Digital Modulation



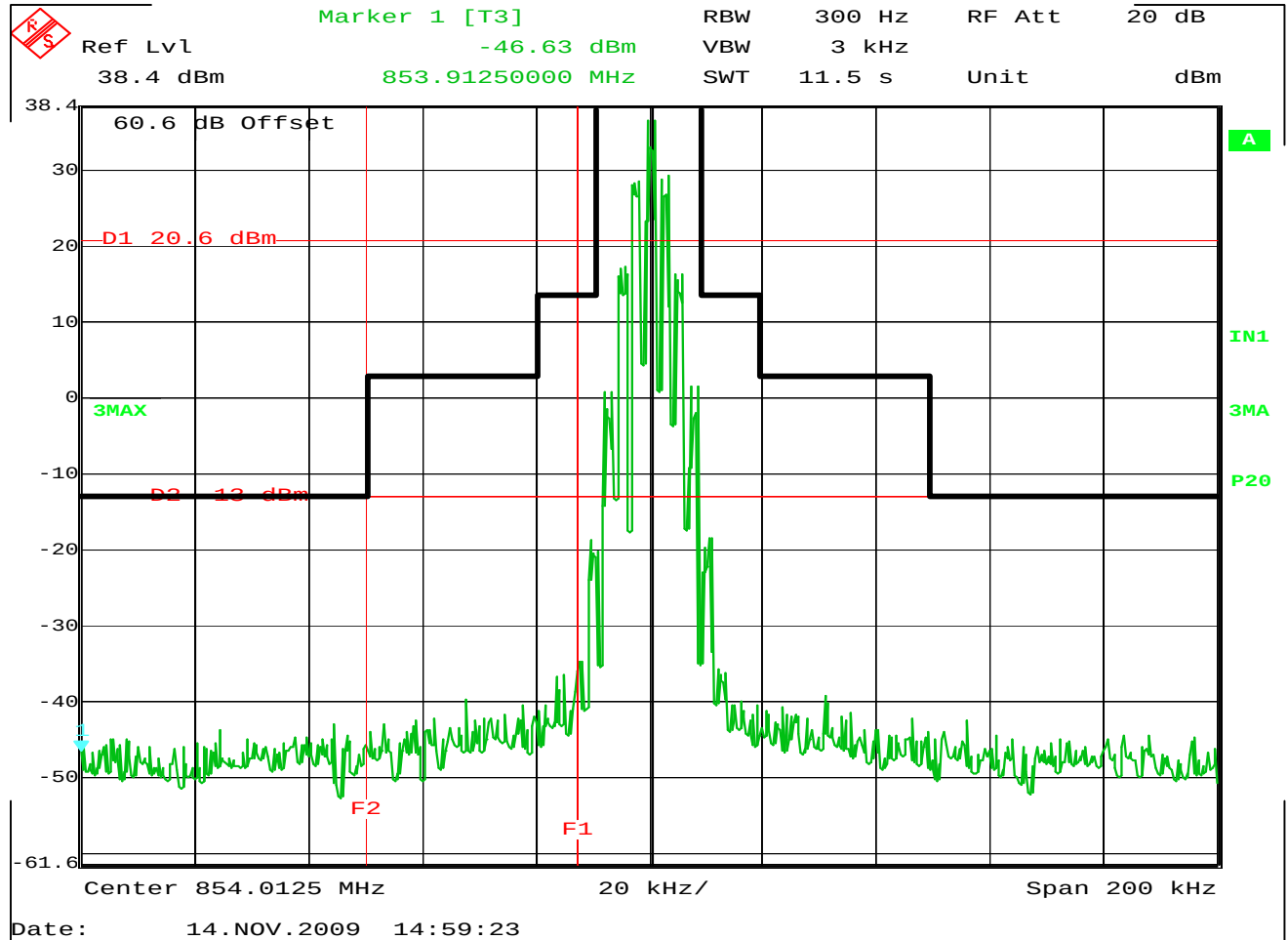
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



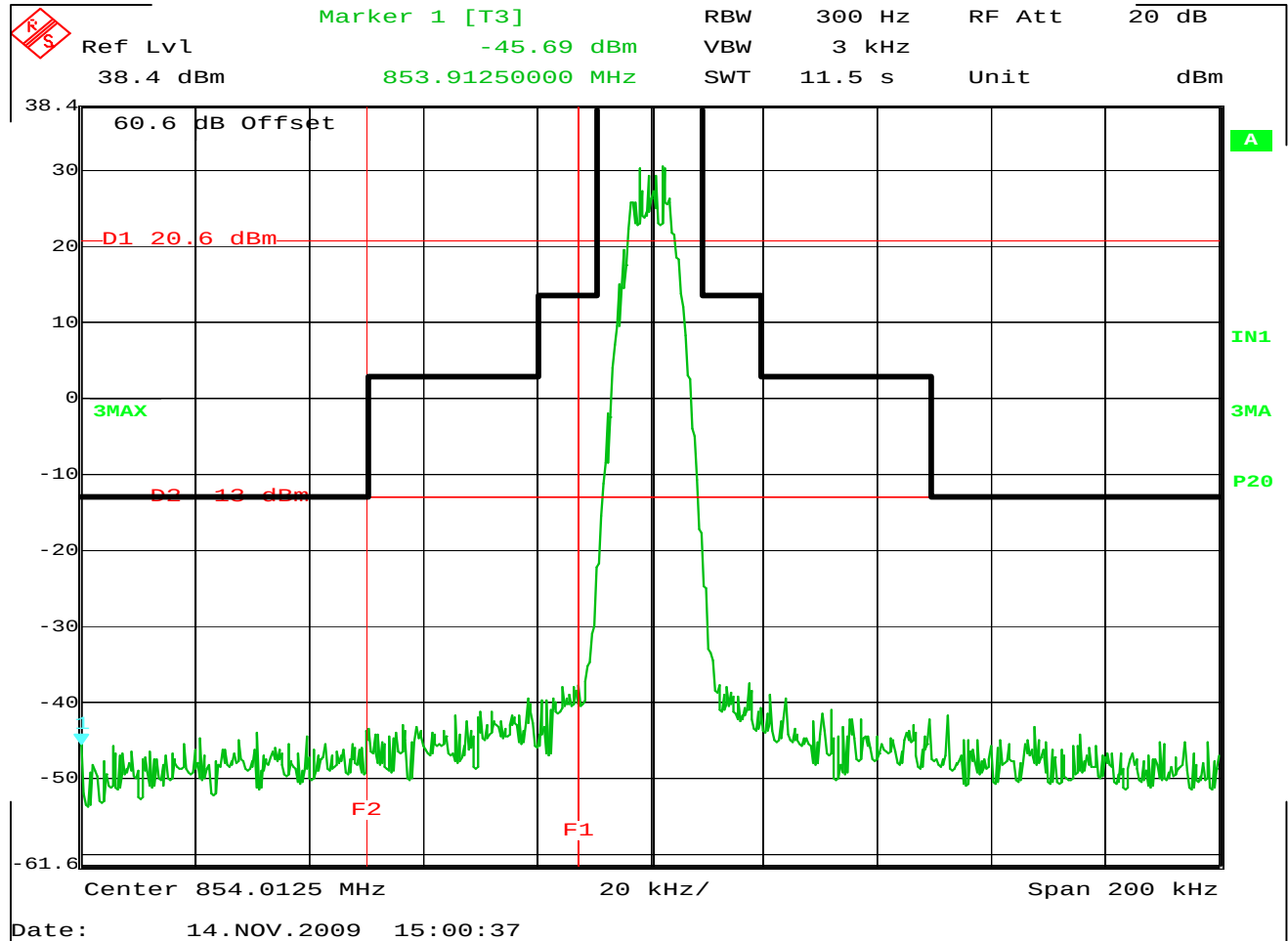
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + DPL



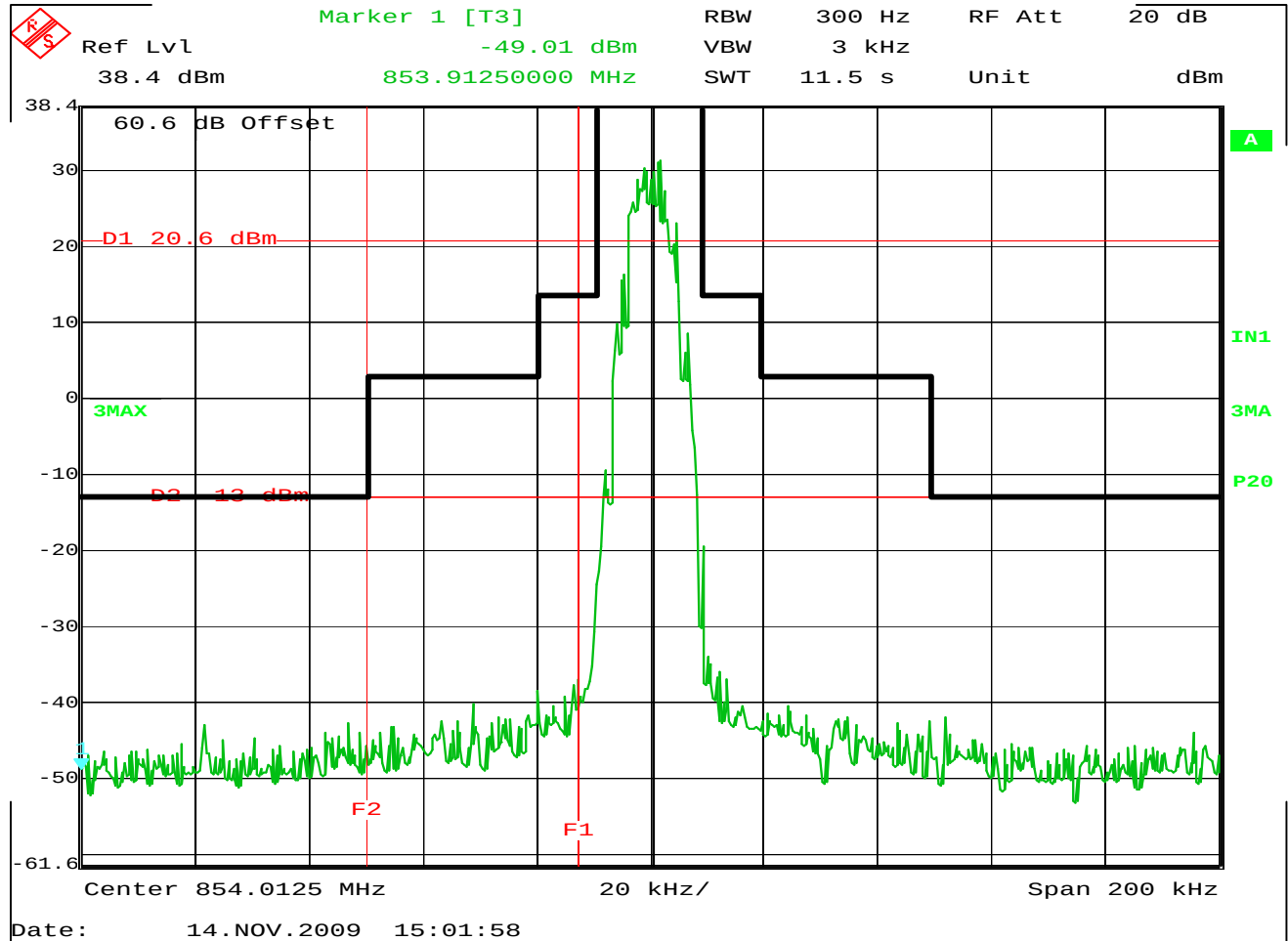
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + TPL



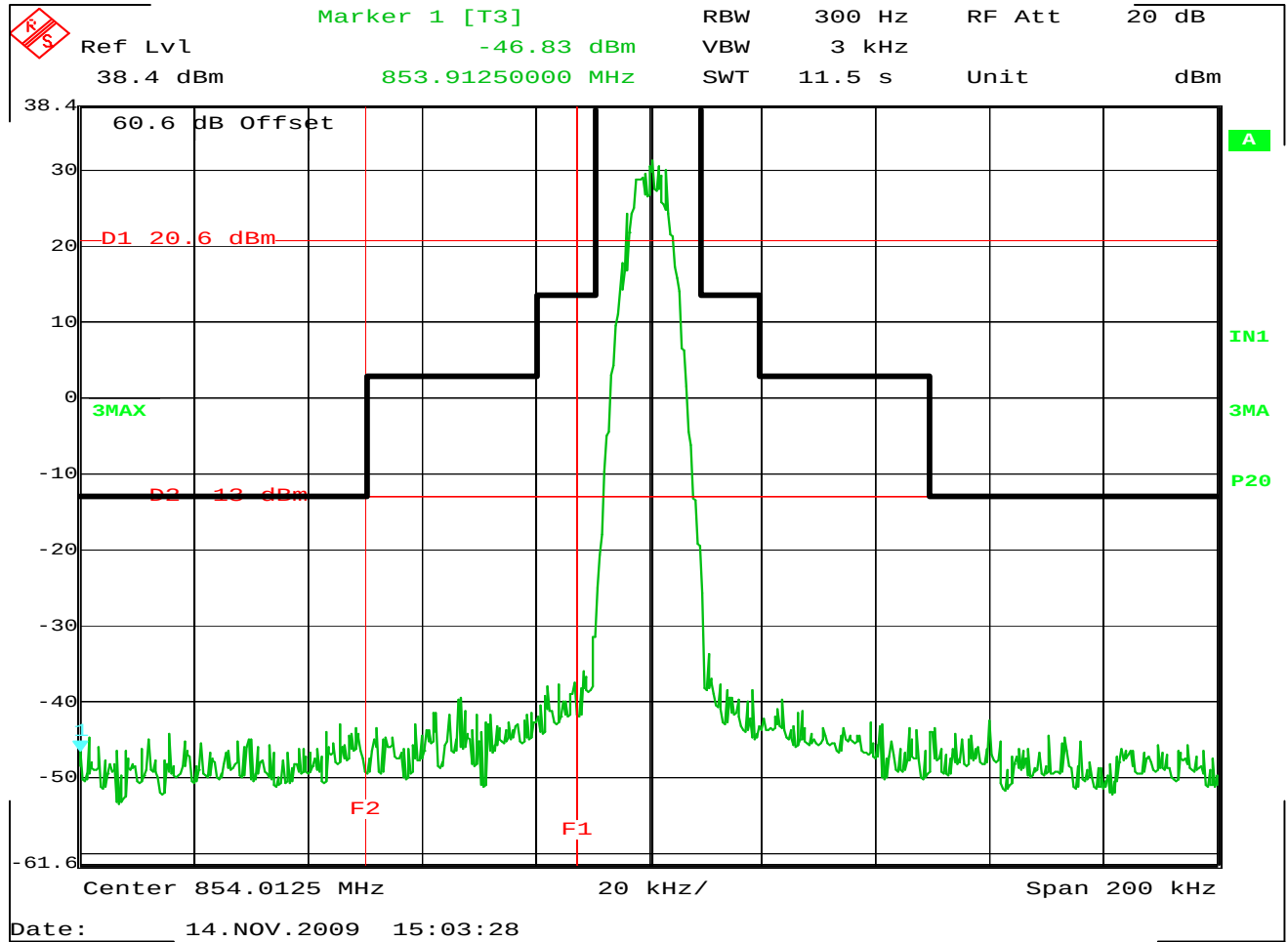
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
DTMF



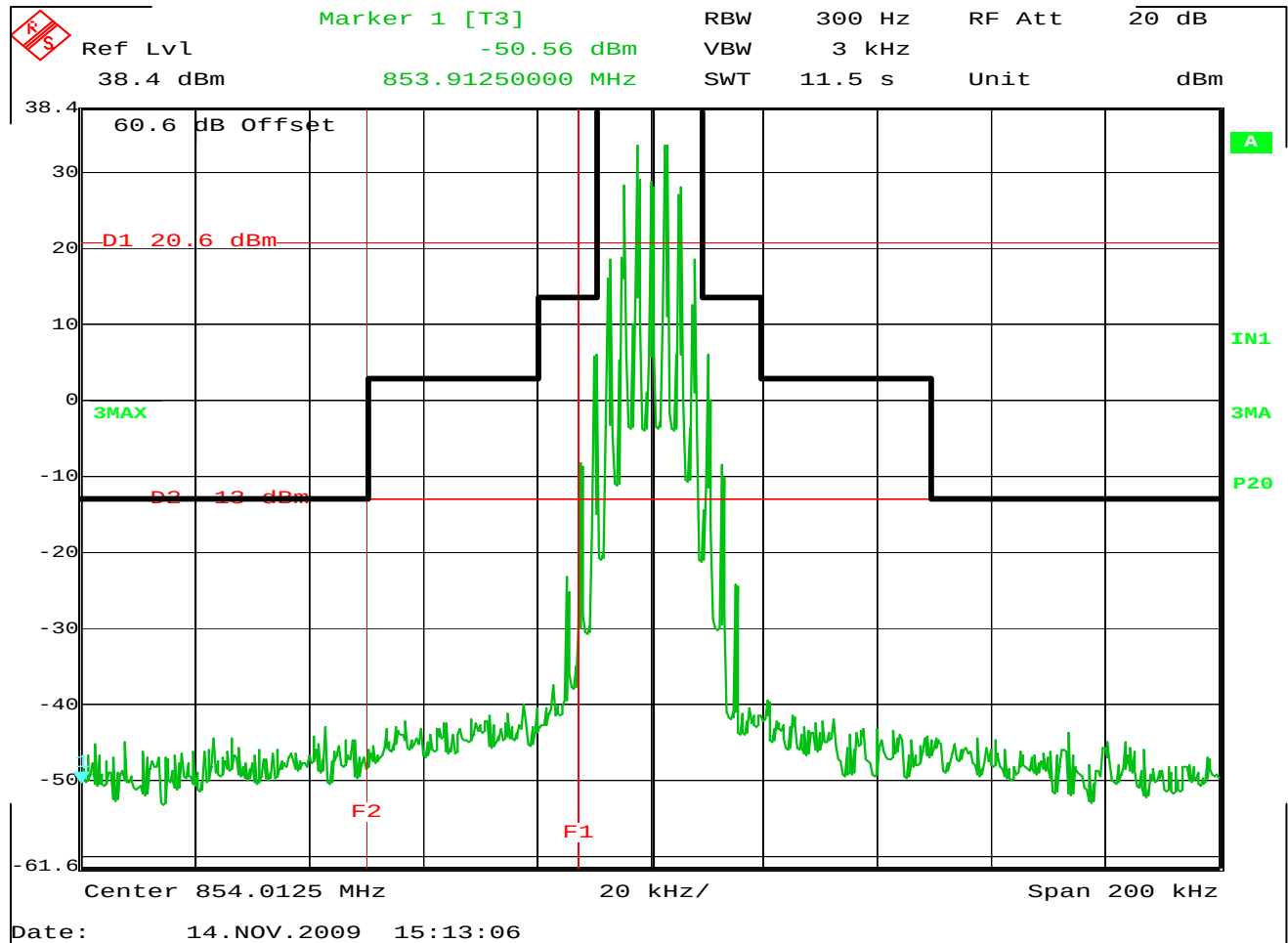
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: DTMF + DPL



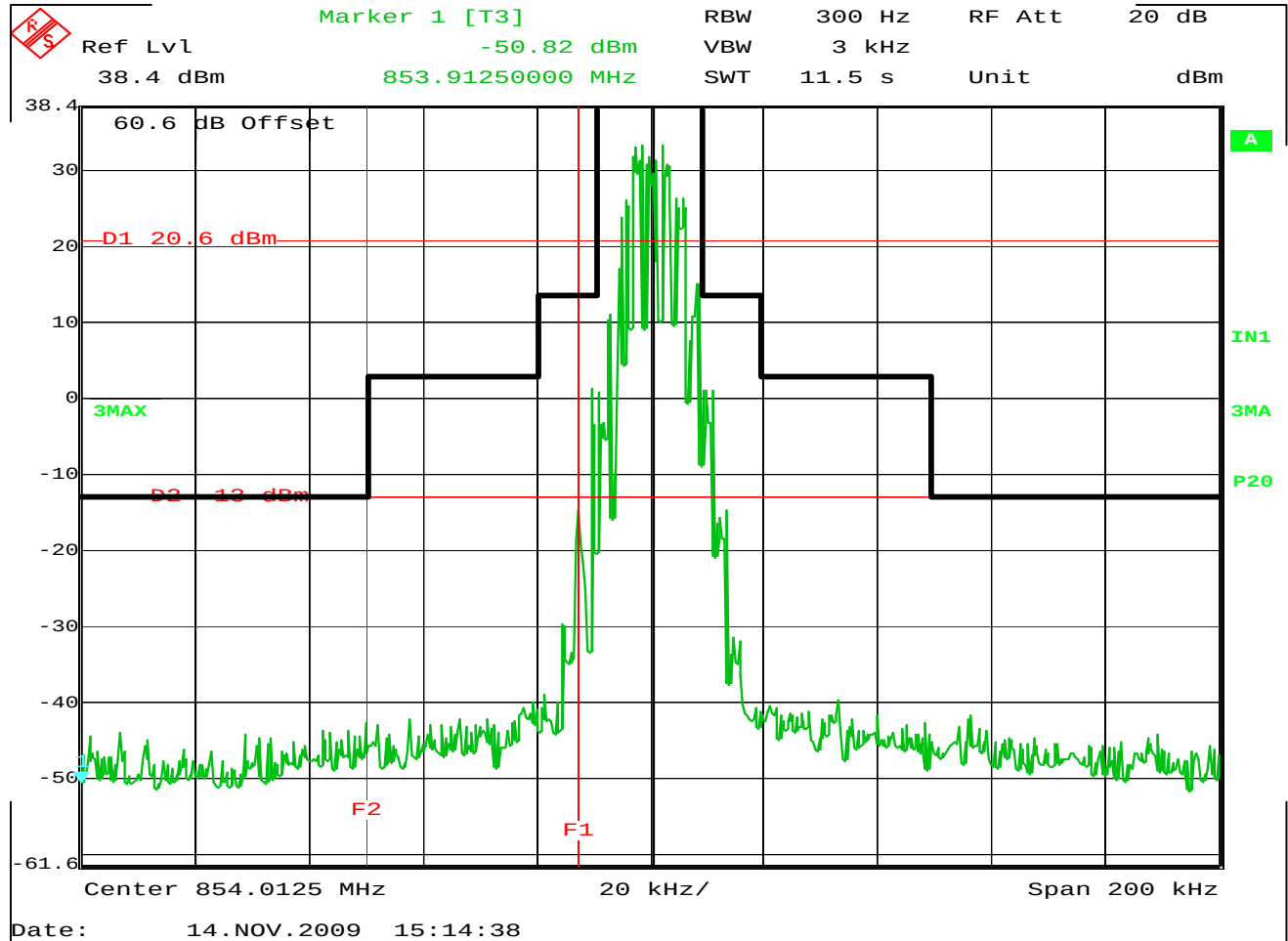
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: DTMF + TPL



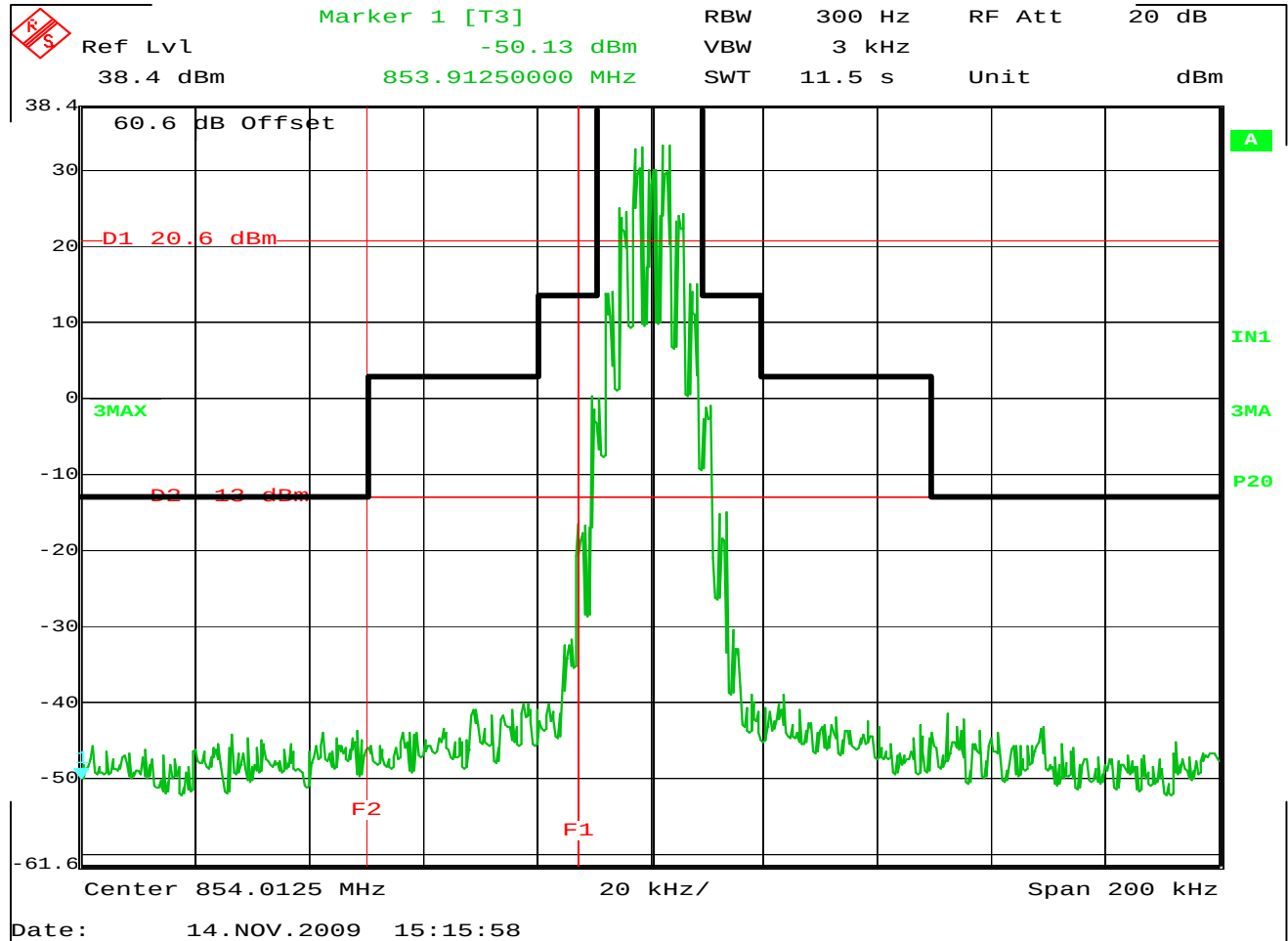
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: FSK



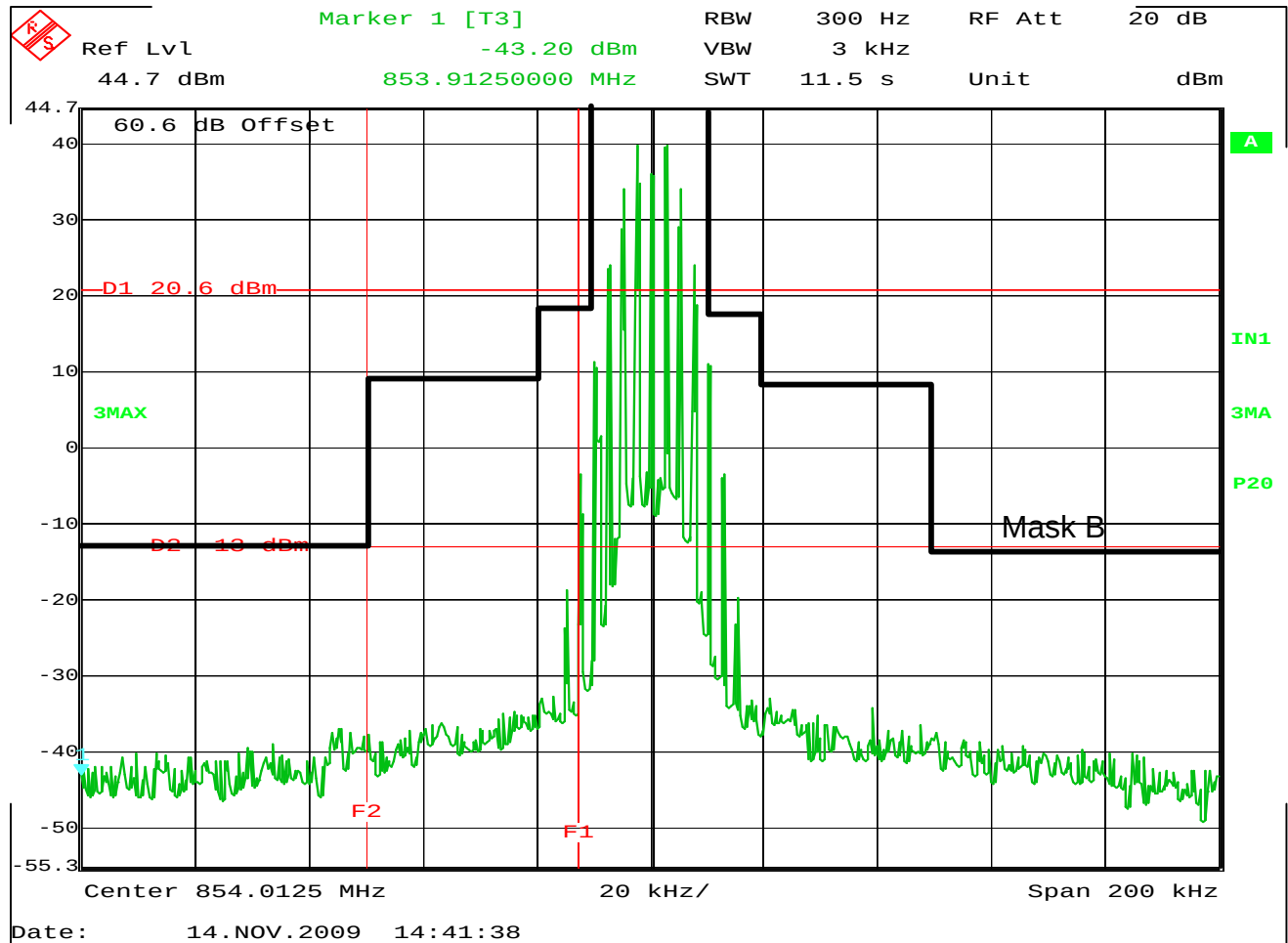
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: FSK + DPL



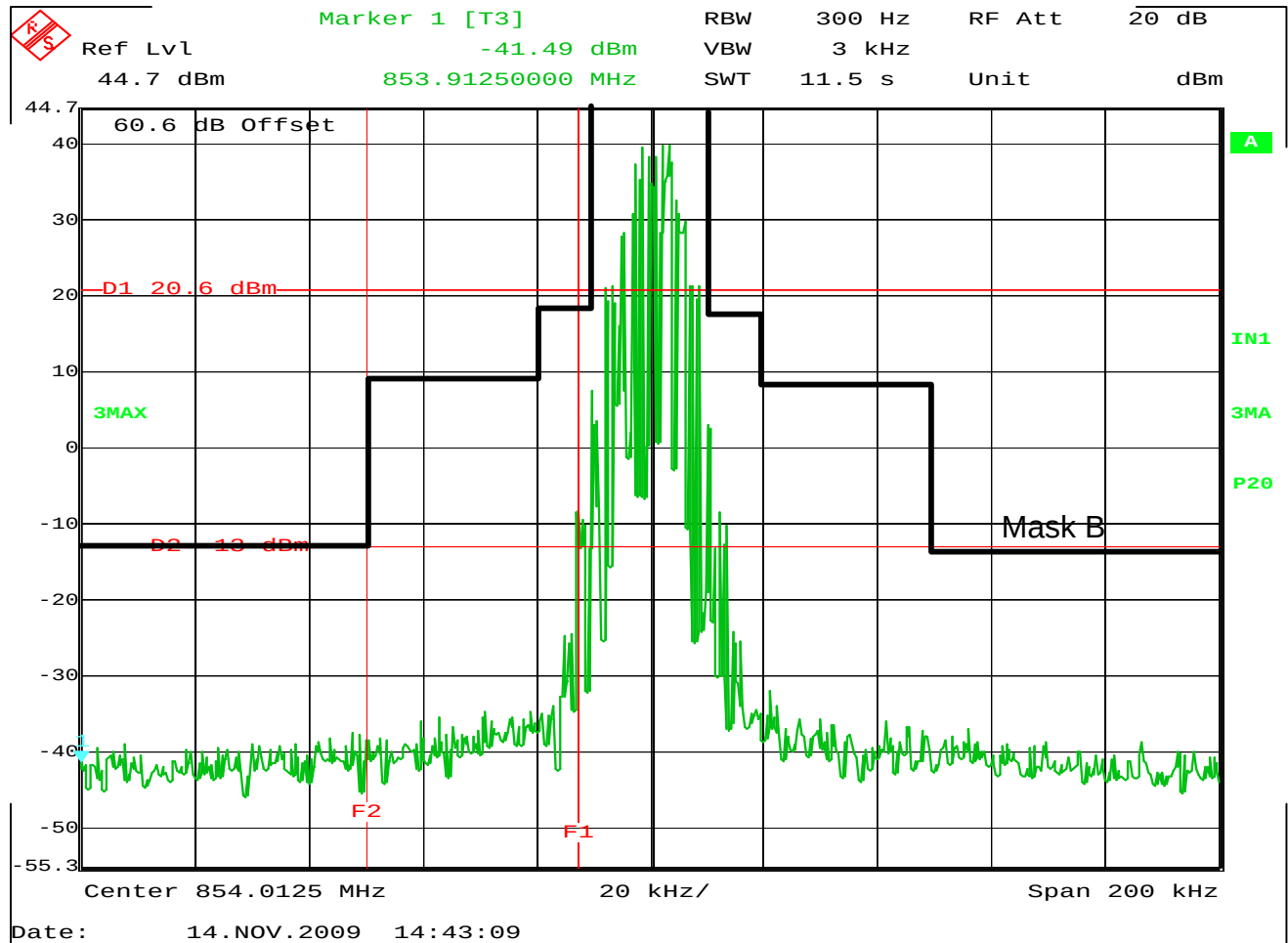
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: FSK + TPL



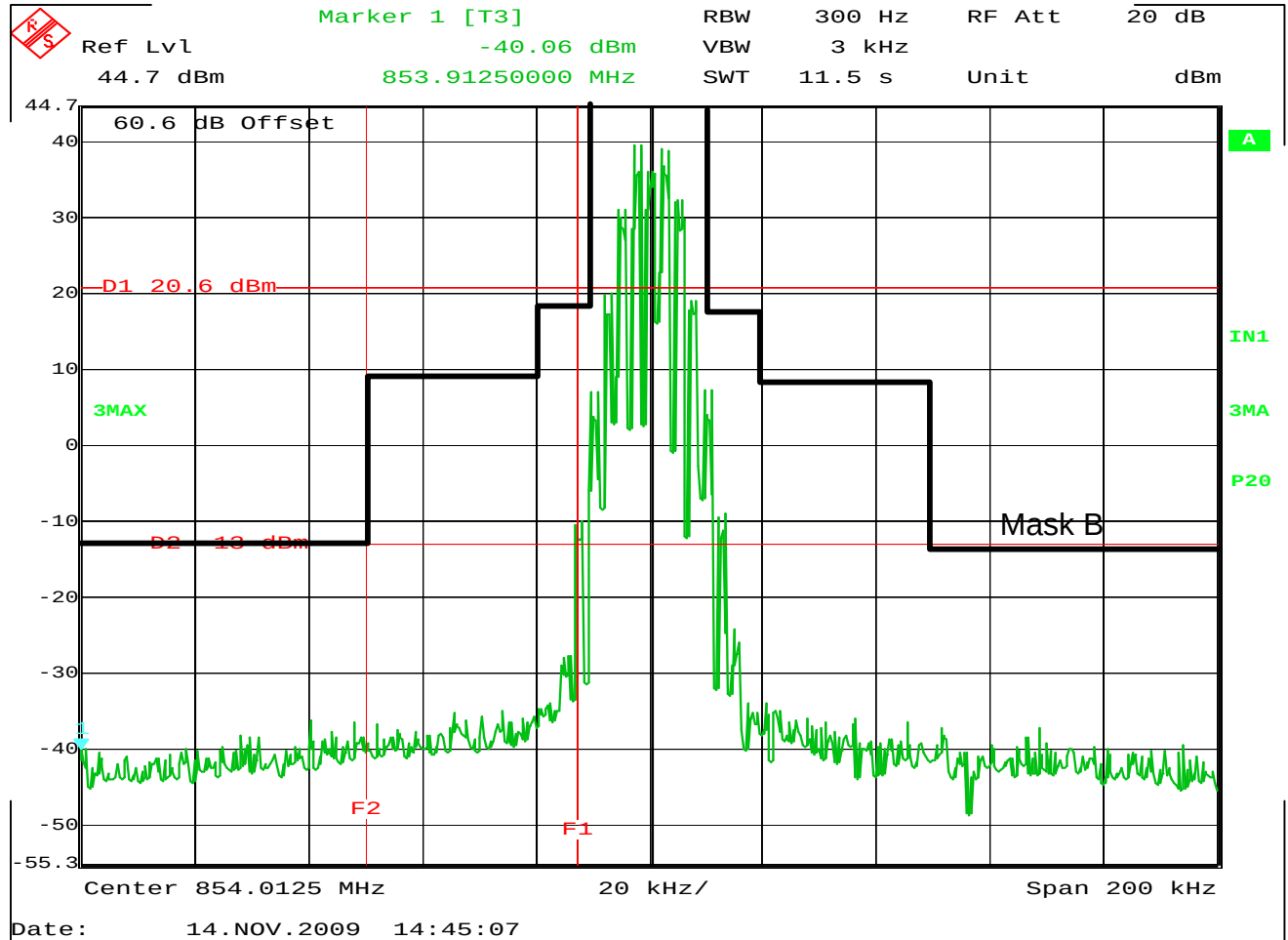
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



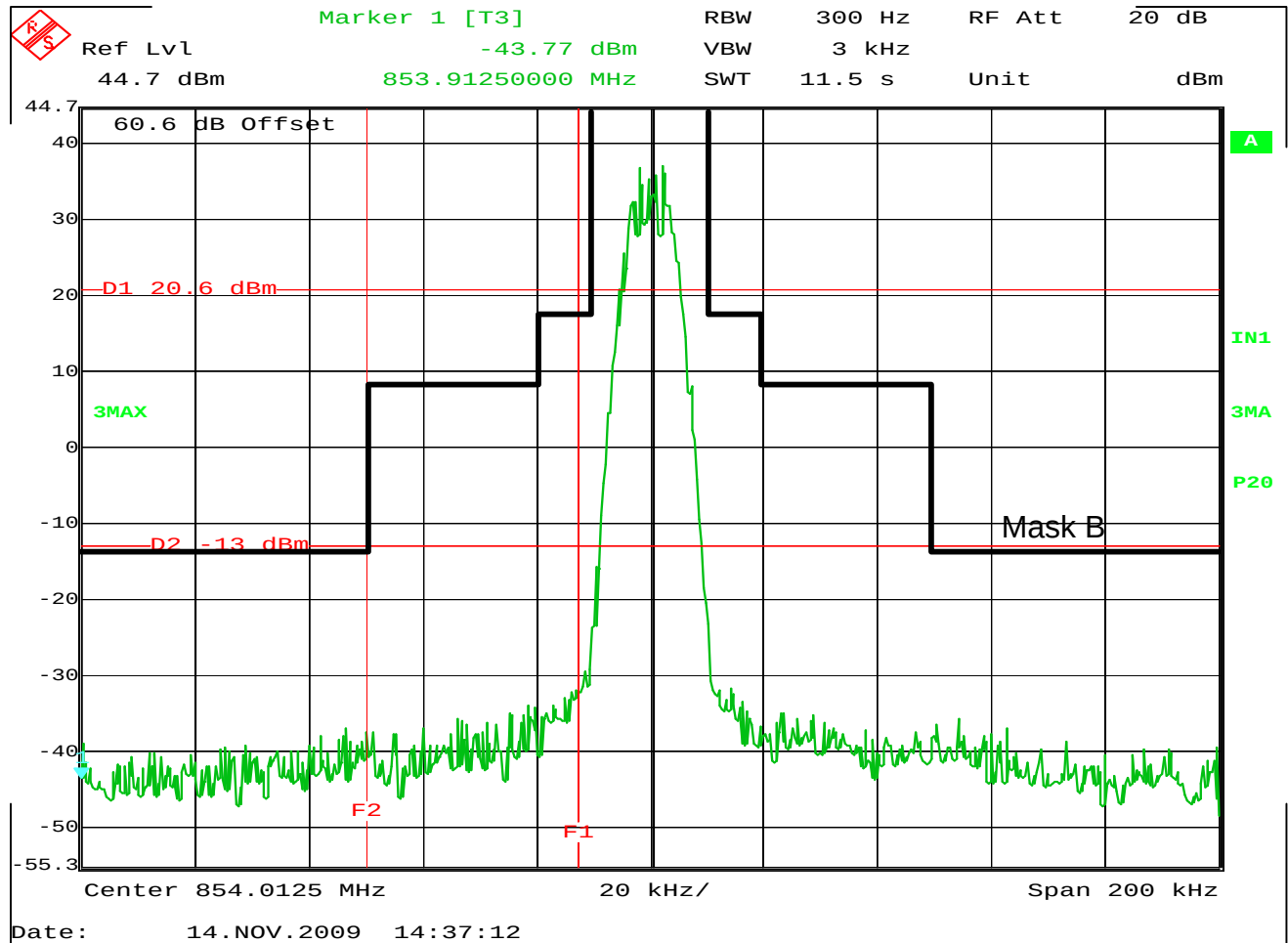
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + DPL



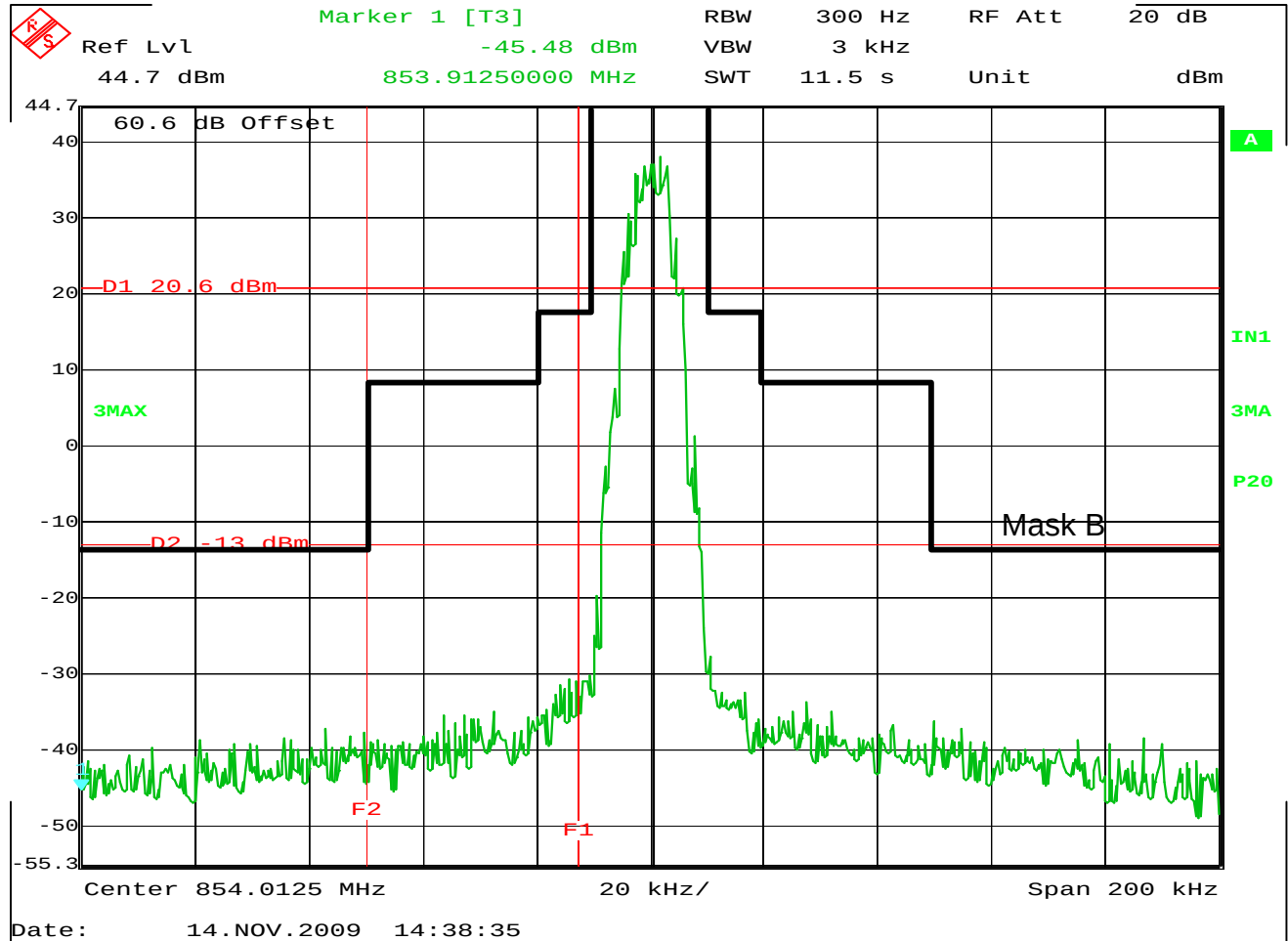
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + TPL



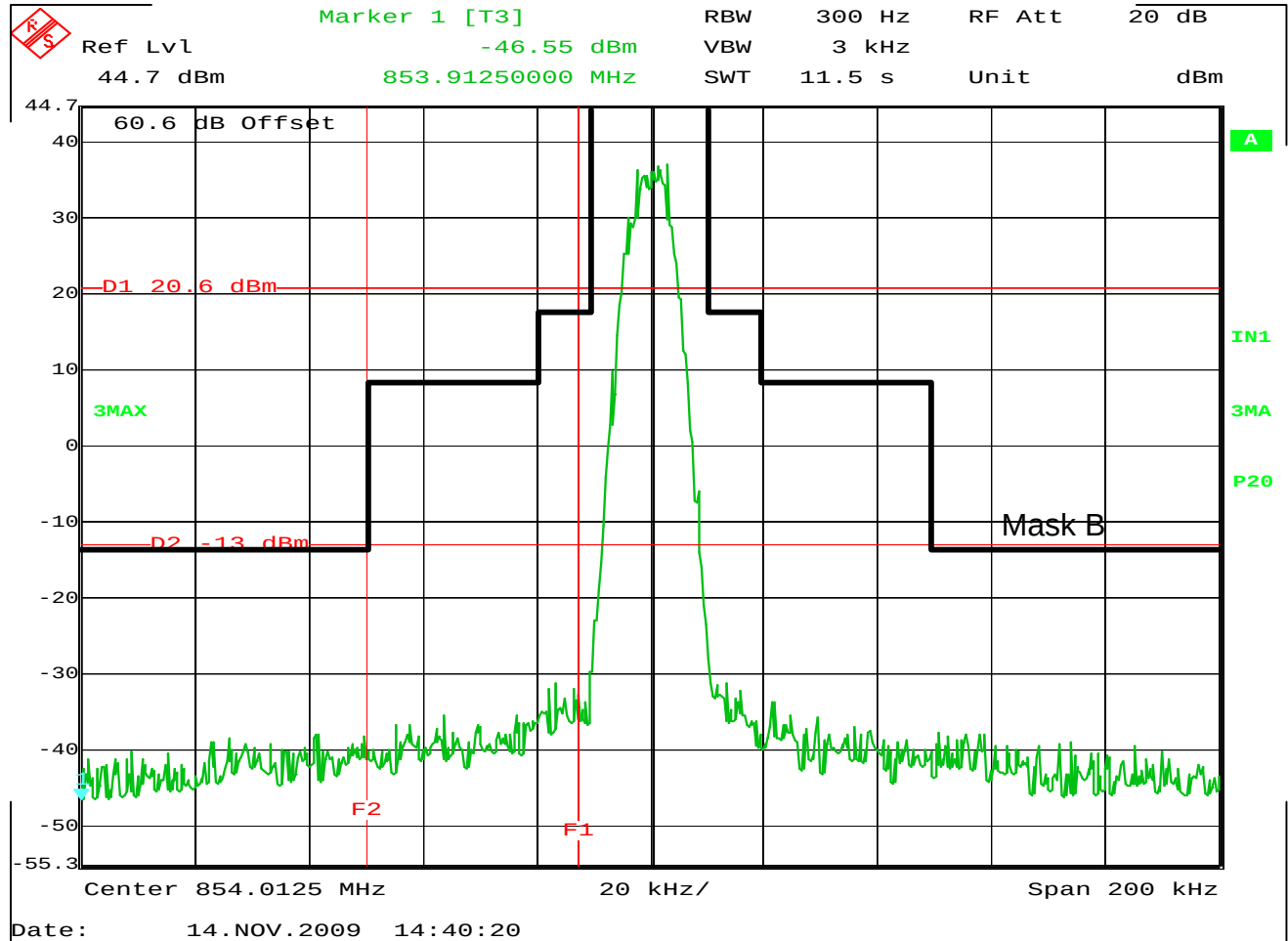
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: DTMF



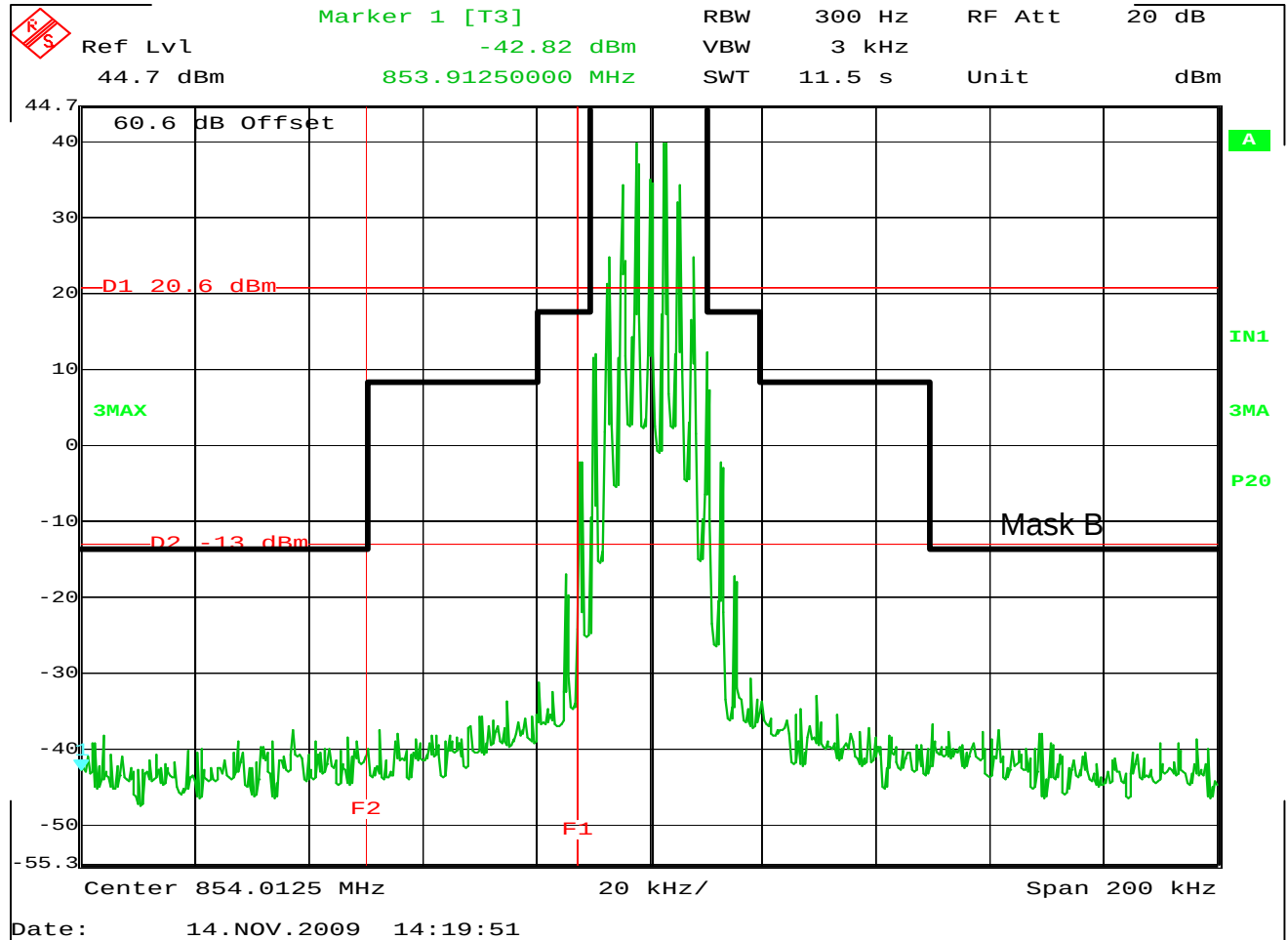
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: DTMF + DPL



FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: DTMF + TPL

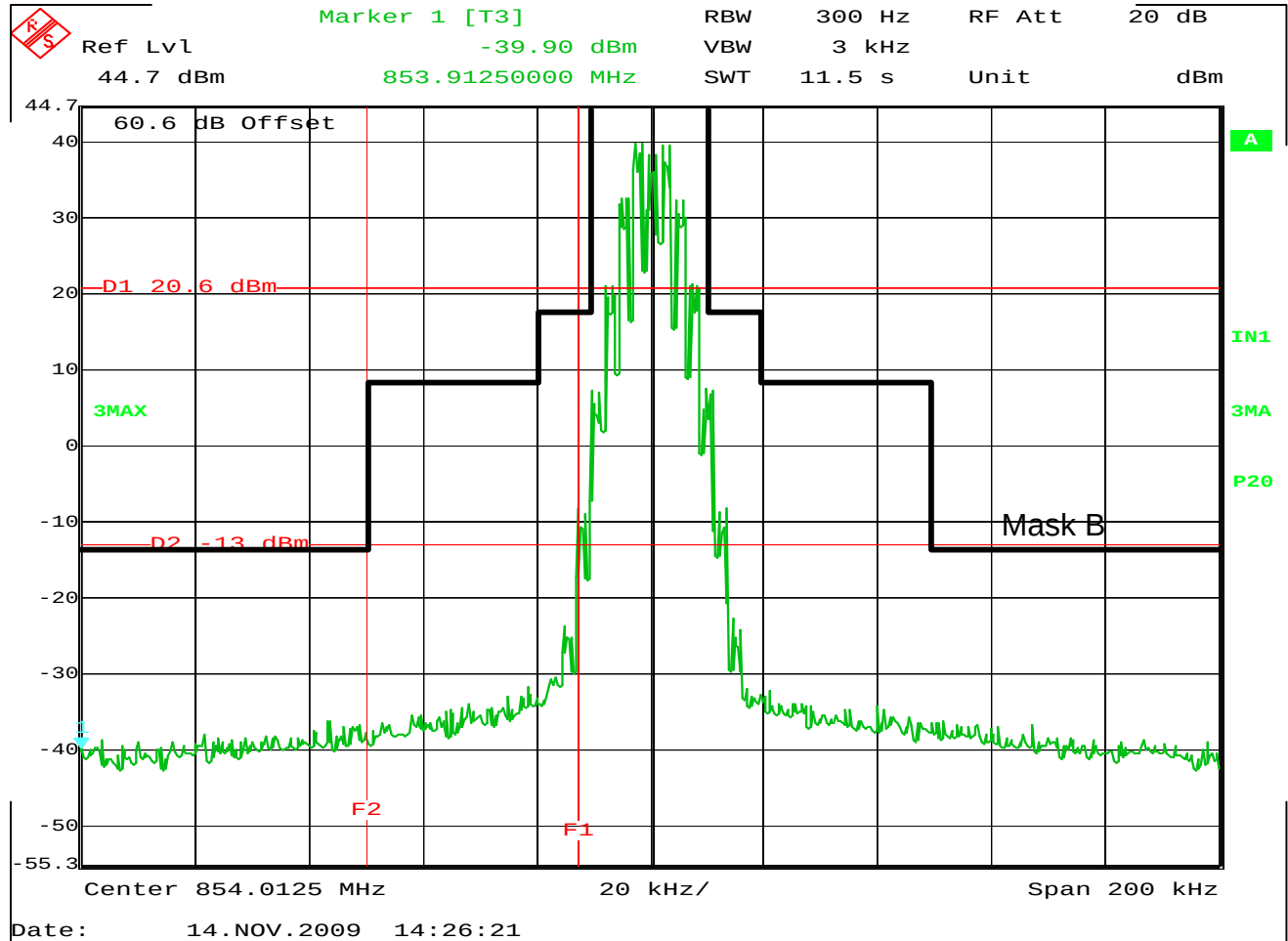


FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: FSK

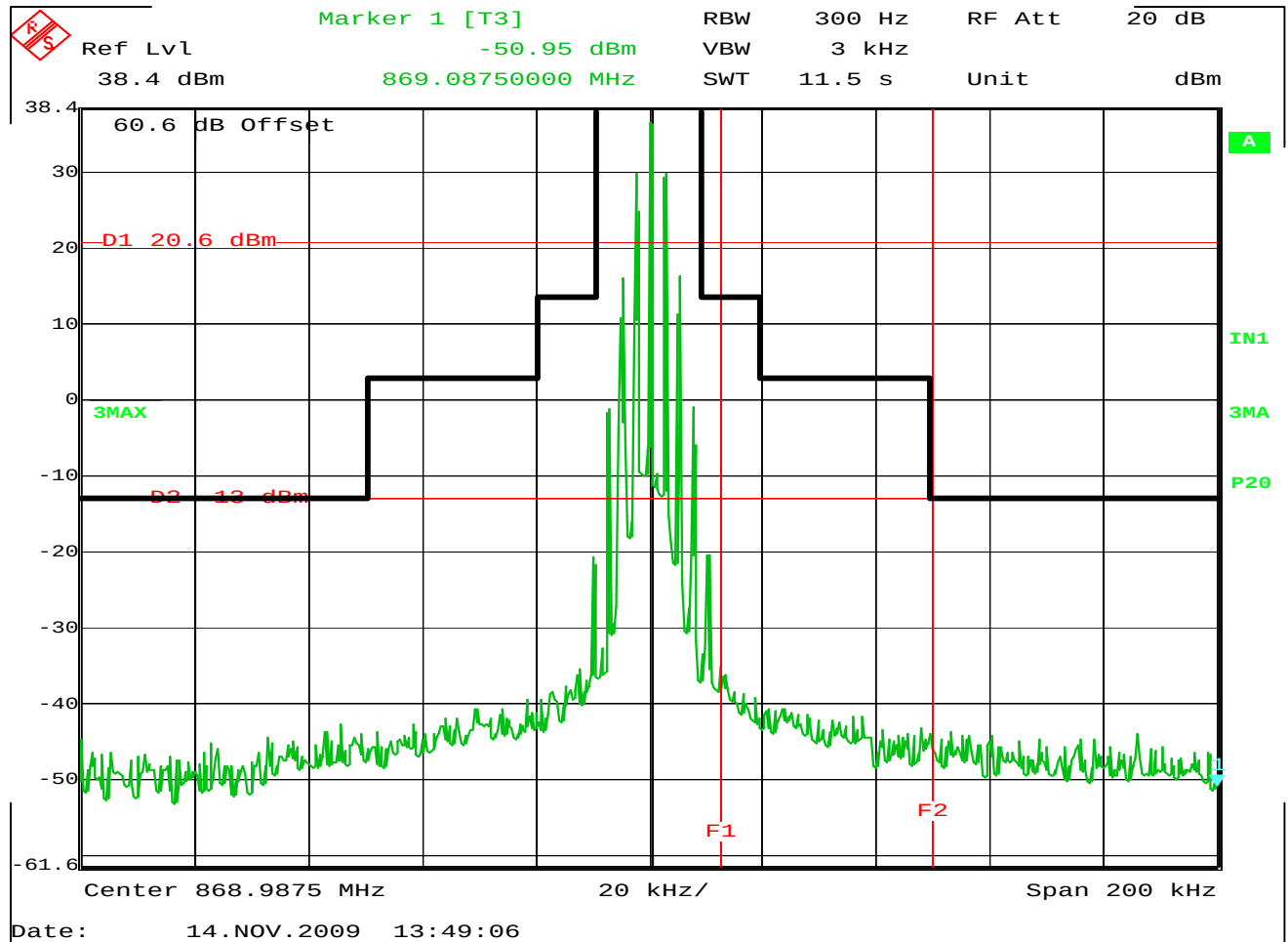


MANUFACTURER	: Motorola Inc.
MODEL	: AAM27VMR9JA7M
SERIAL NO.	: 484TKS3462
TEST MODE	: Transmit
FREQUENCY	: 854.0125MHz
POWER LEVEL	: 42W
CHANNEL SPACING	: 25kHz
NOTES	: Mask B
	: FSK + DPL



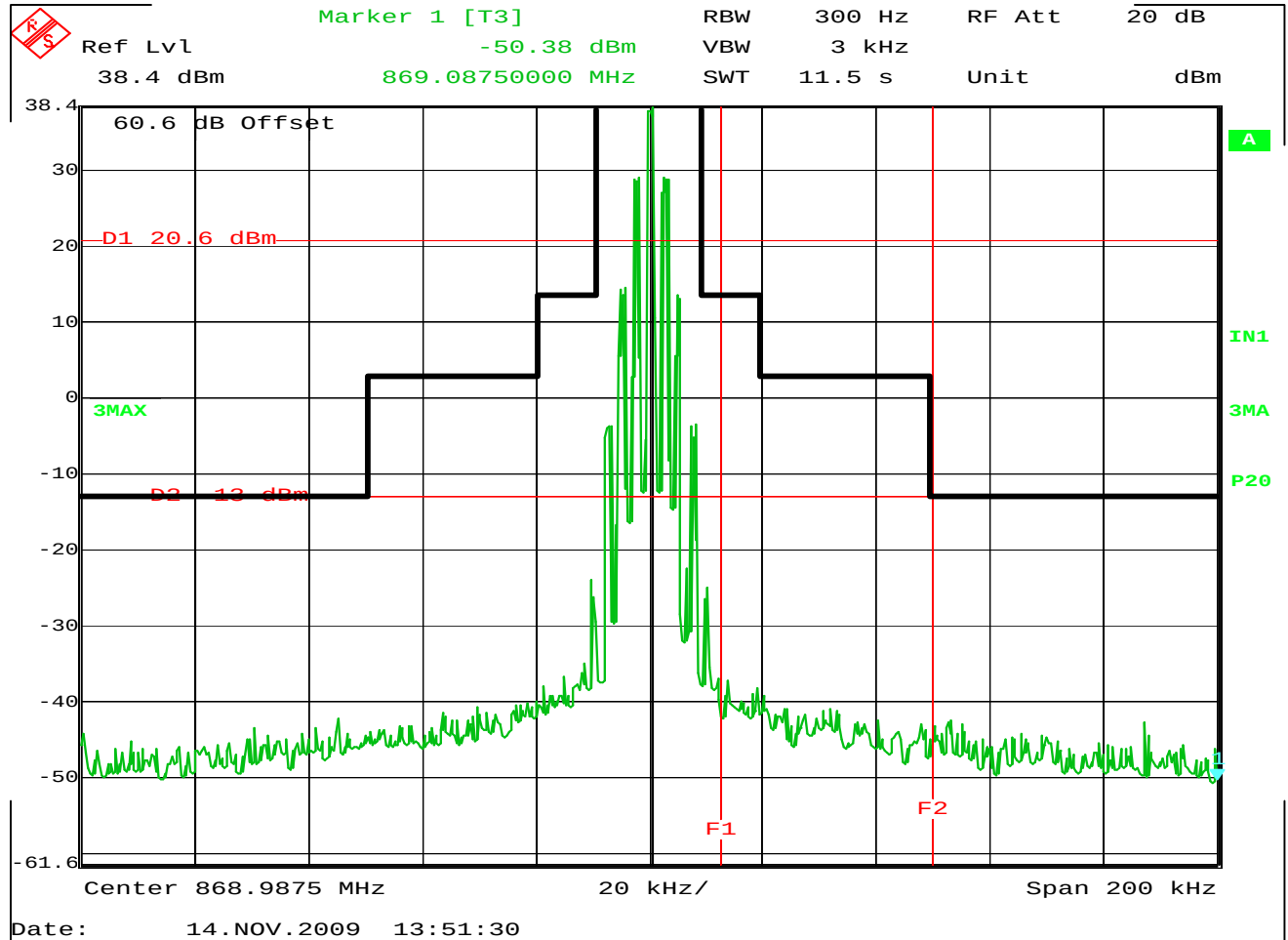
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 854.0125MHz
POWER LEVEL : 42W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: FSK + TPL



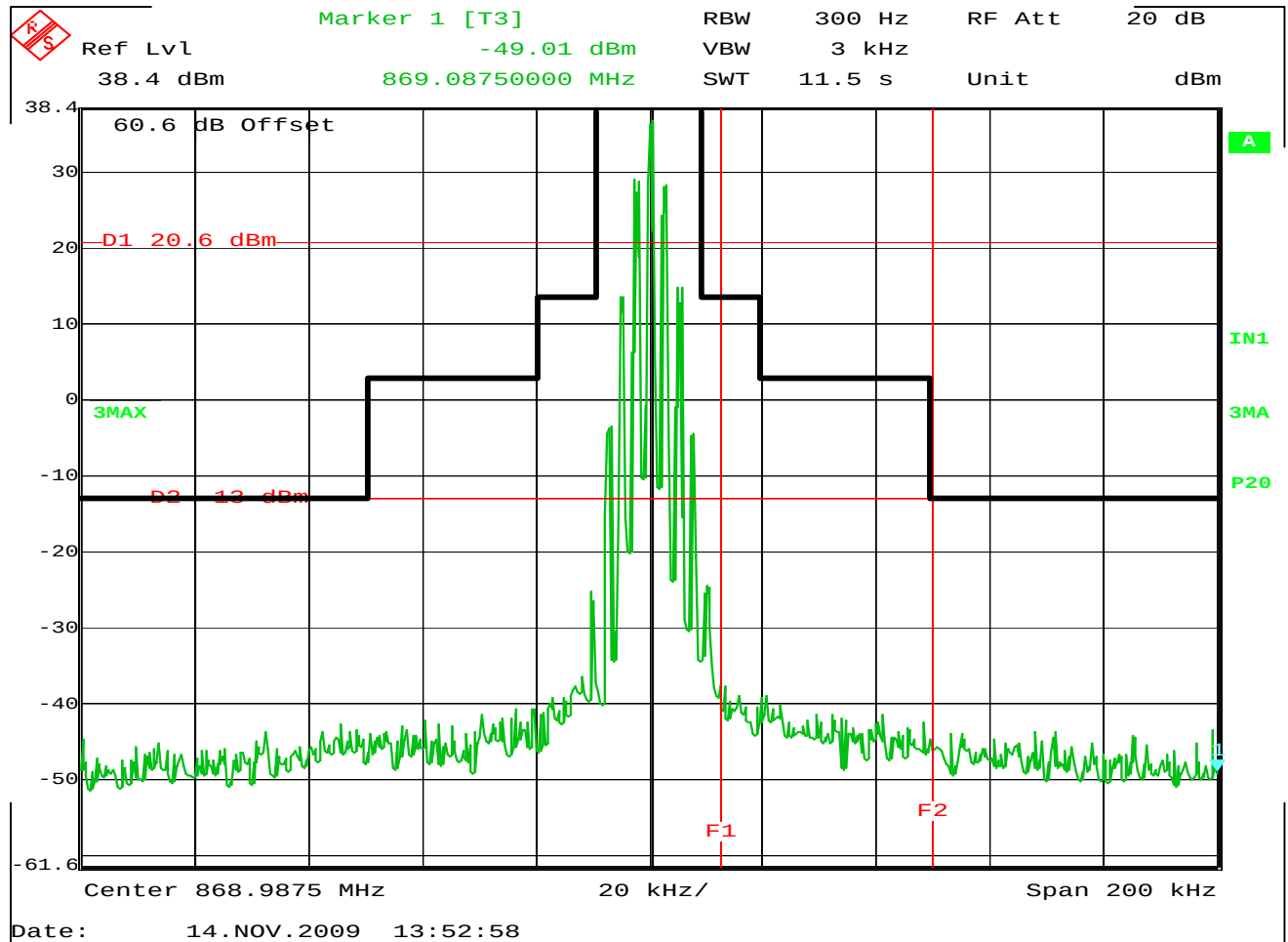
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



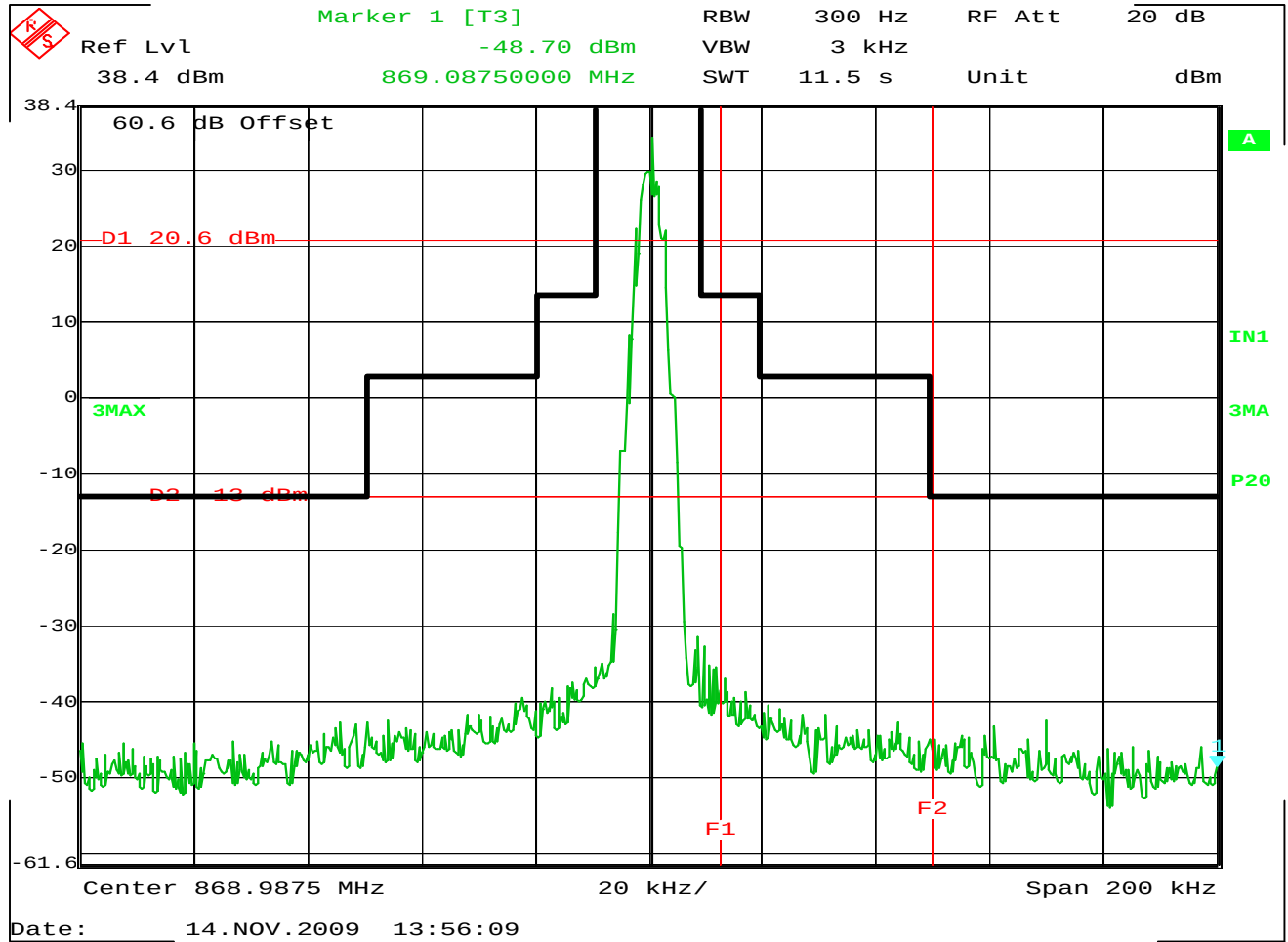
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation +DPL



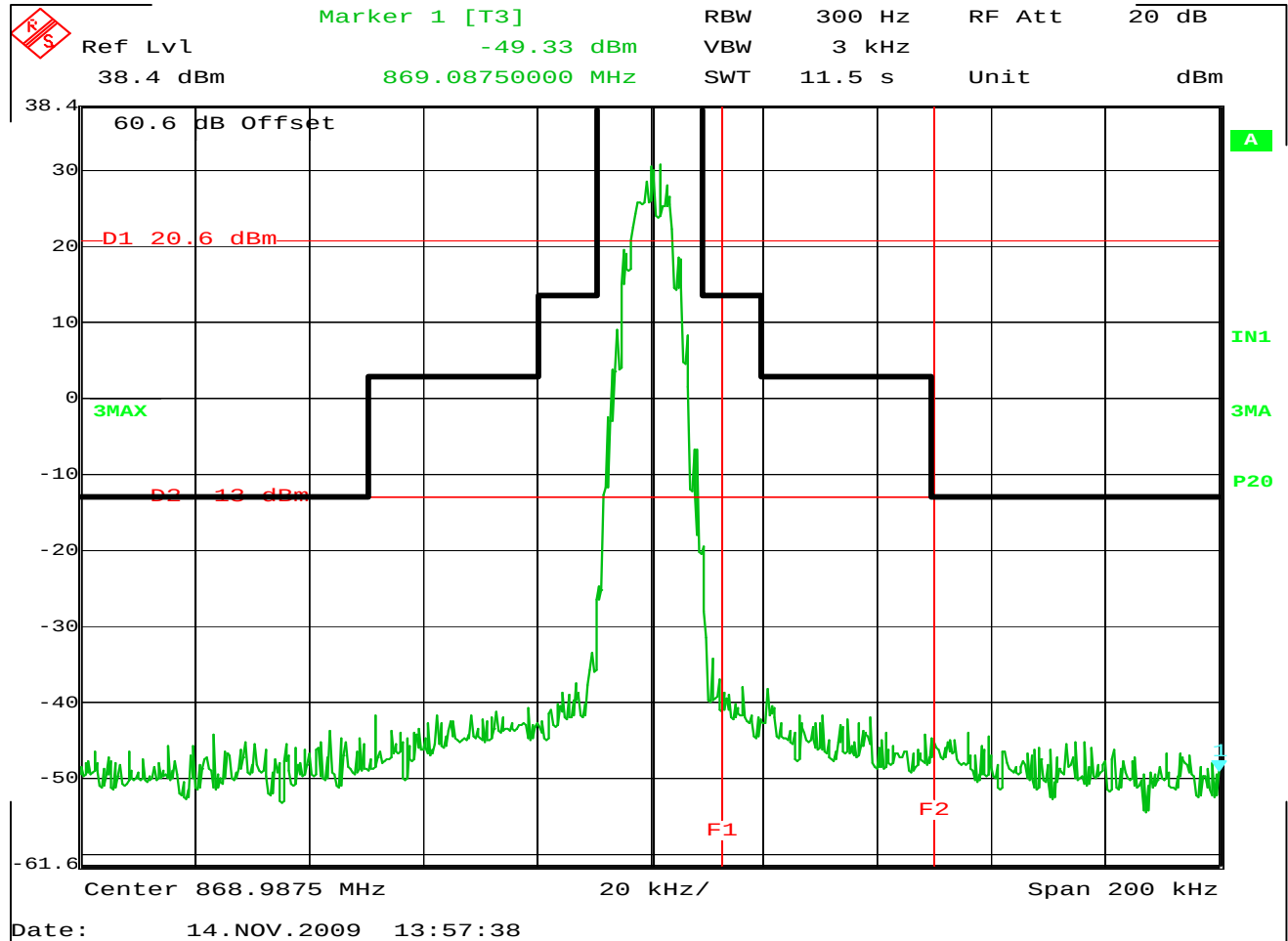
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation +TPL



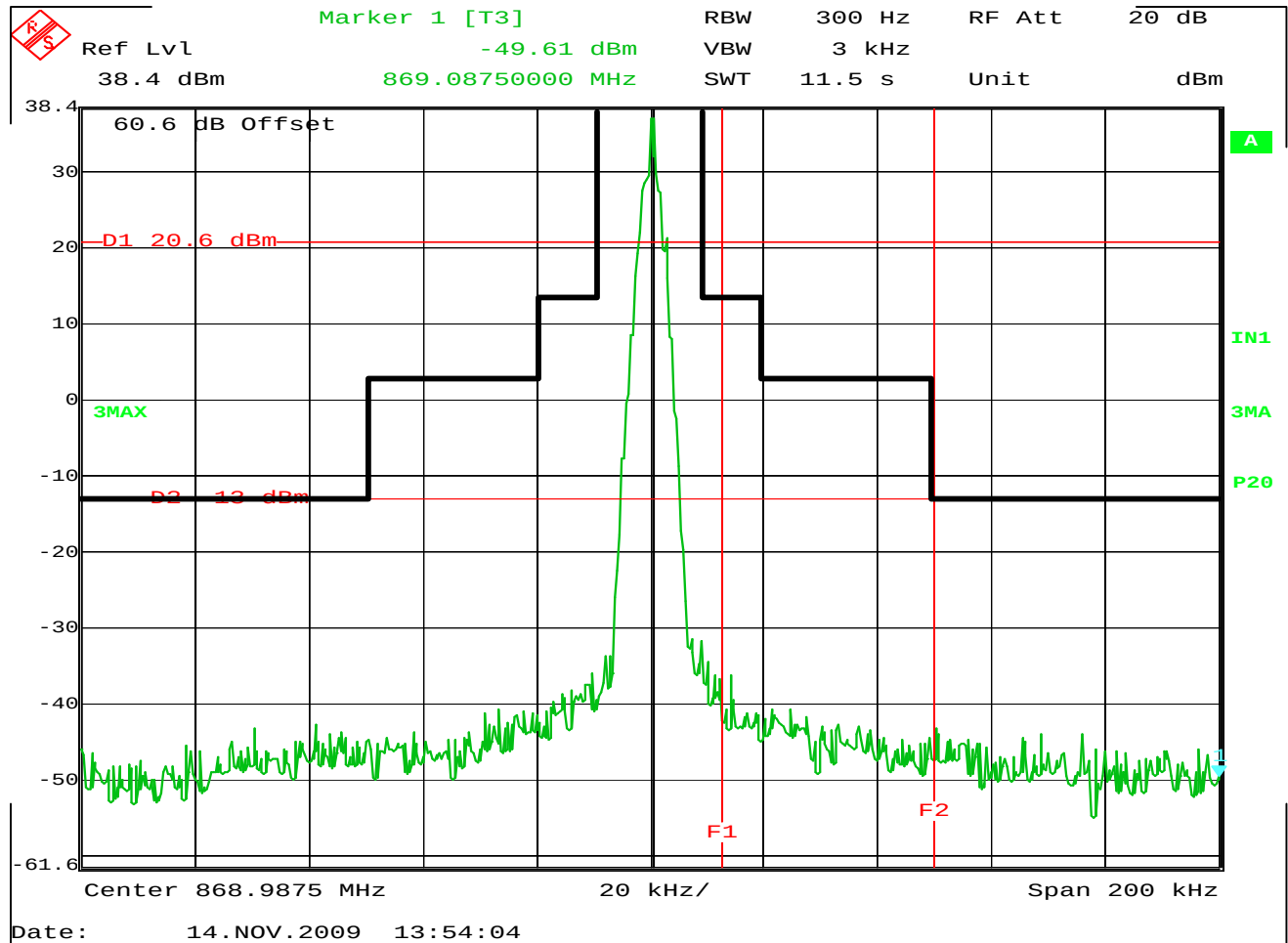
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF



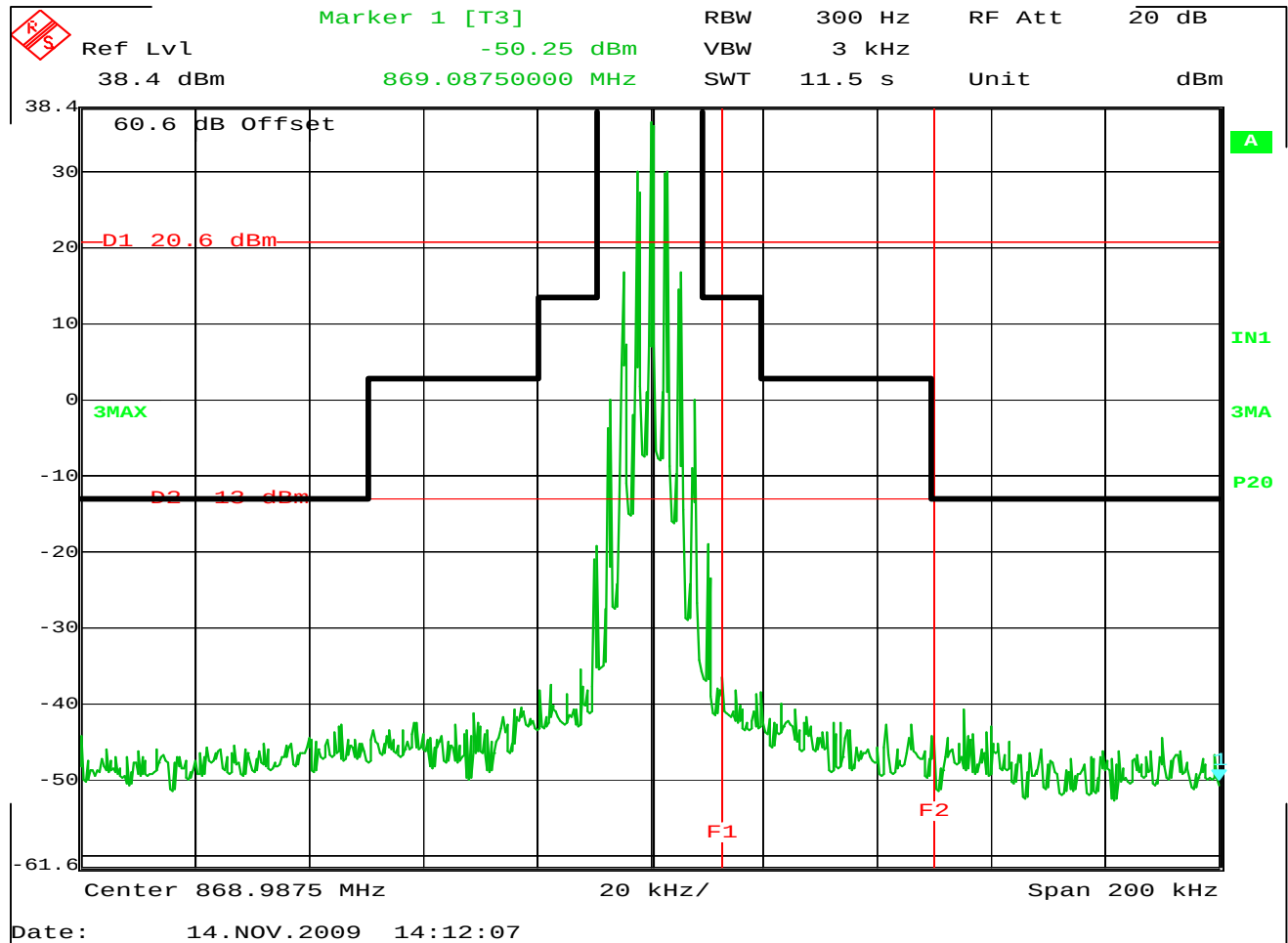
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + DPL



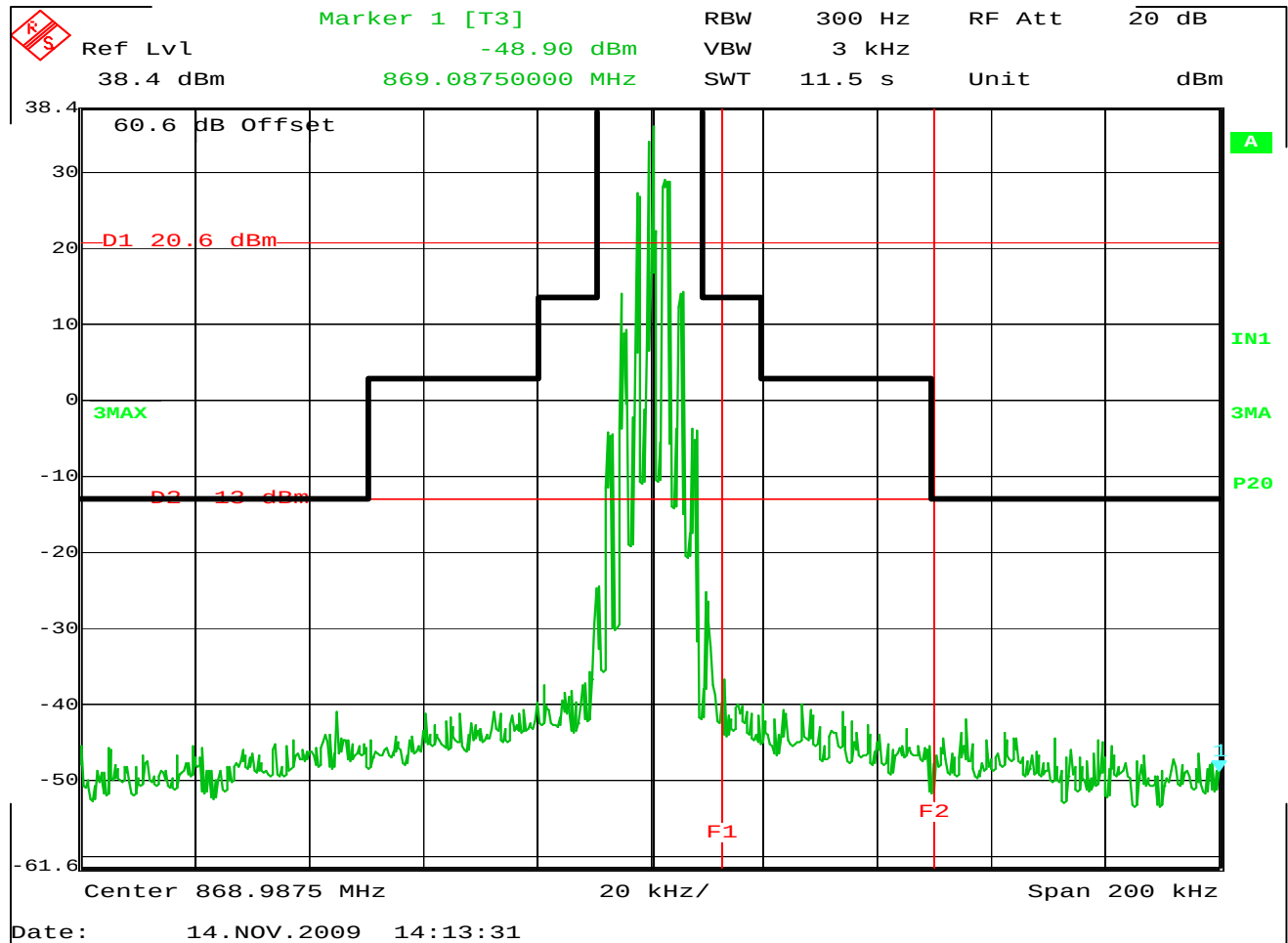
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + TPL



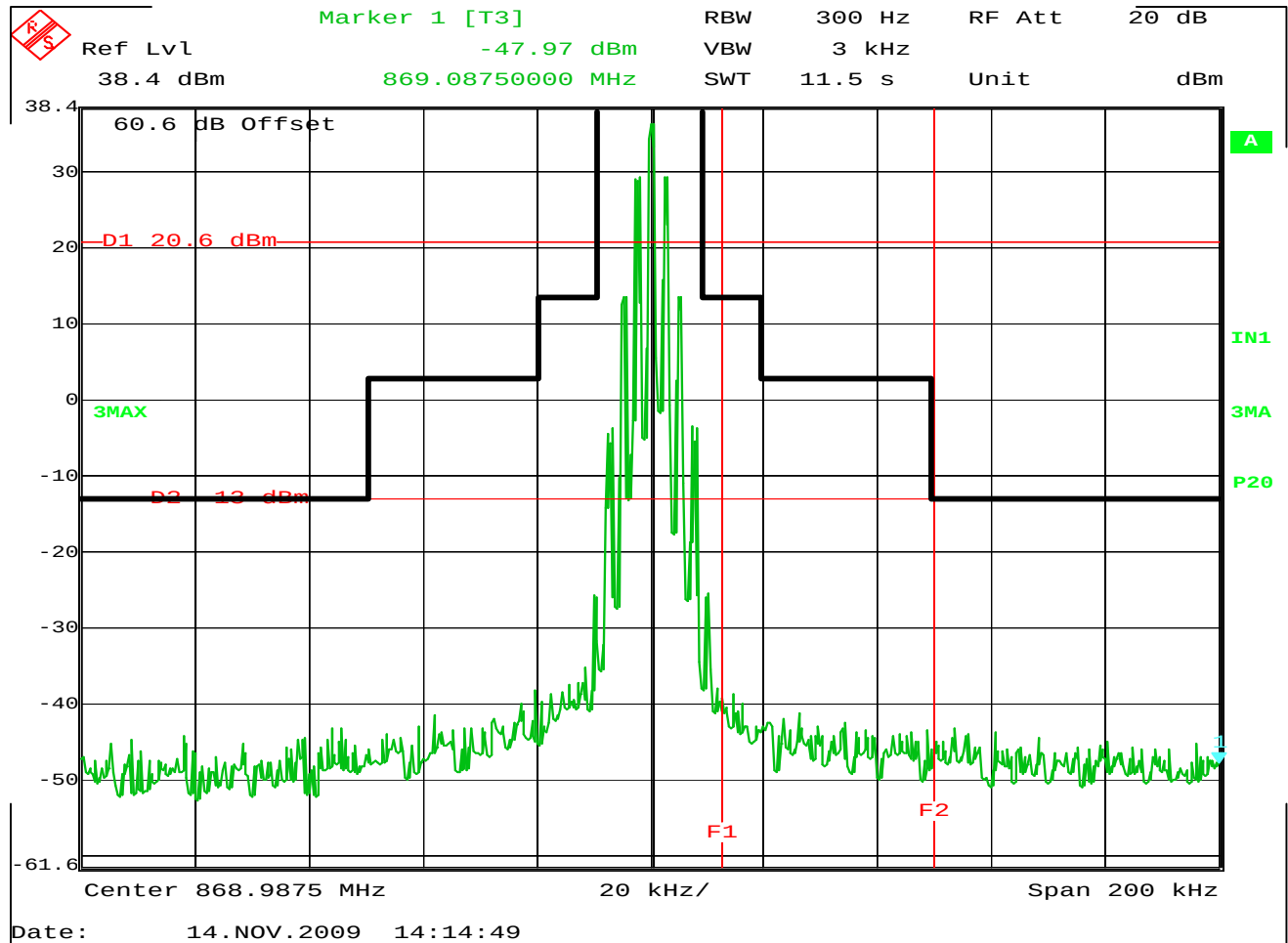
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK



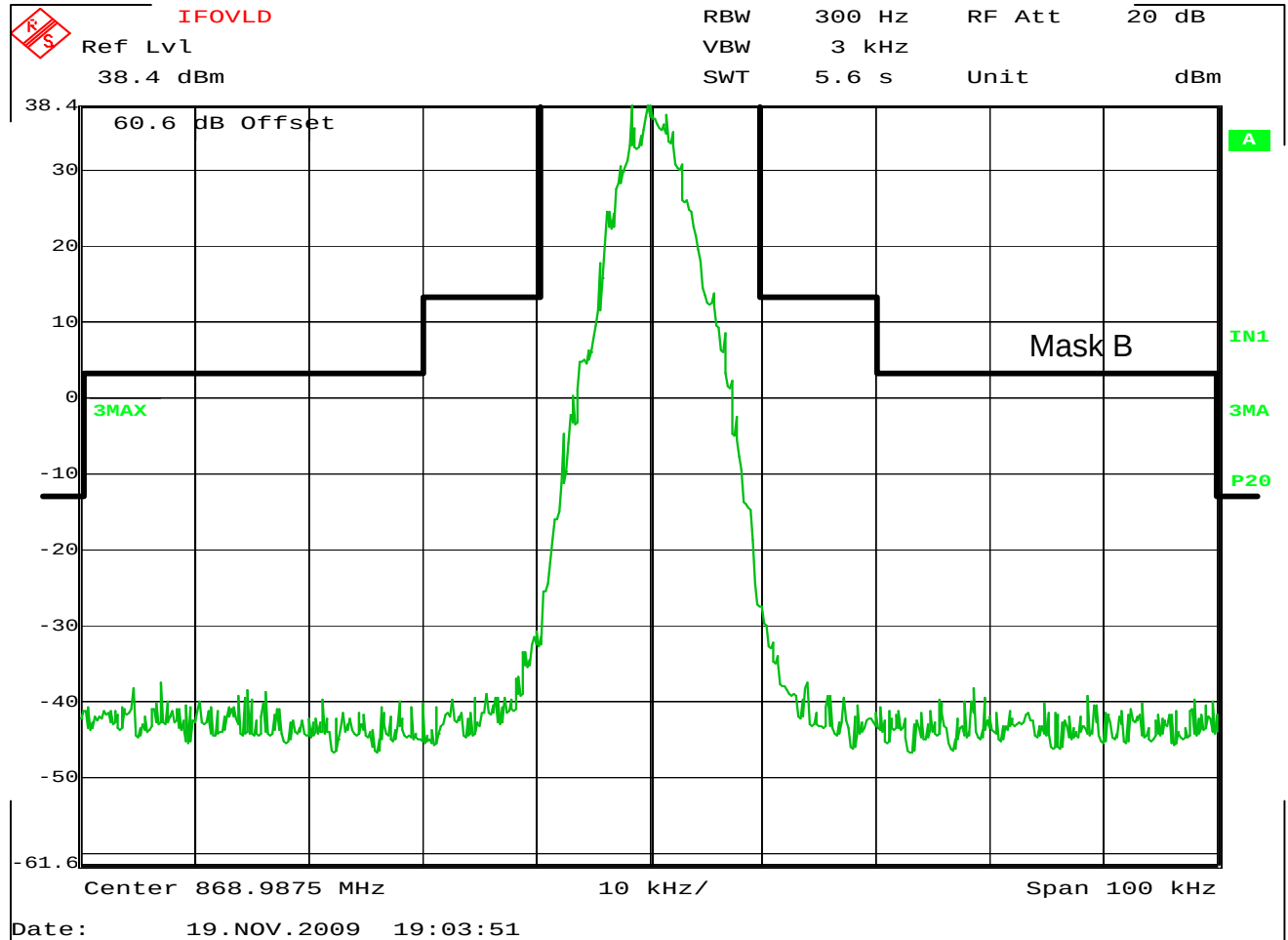
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + DPL



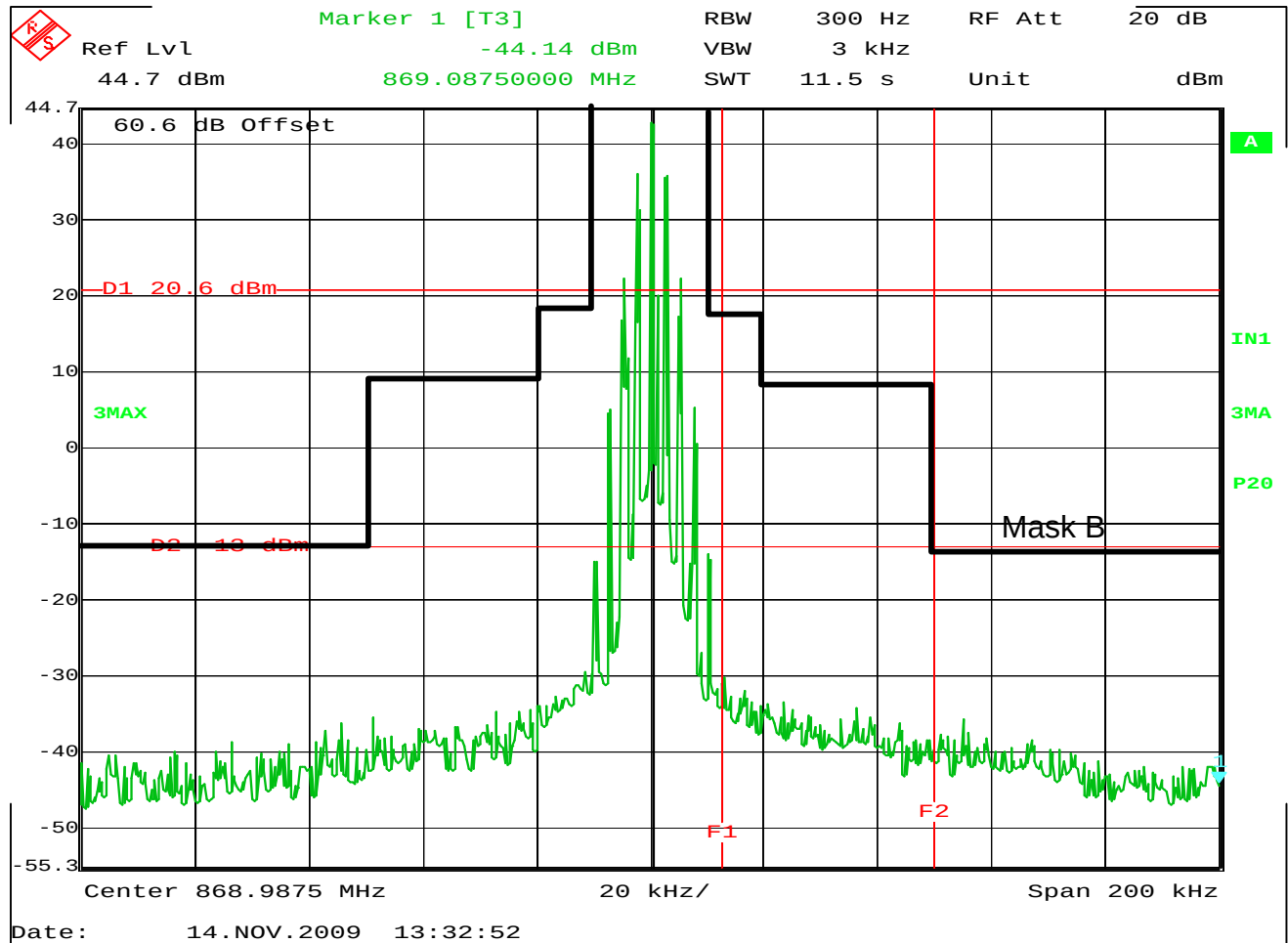
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + TPL



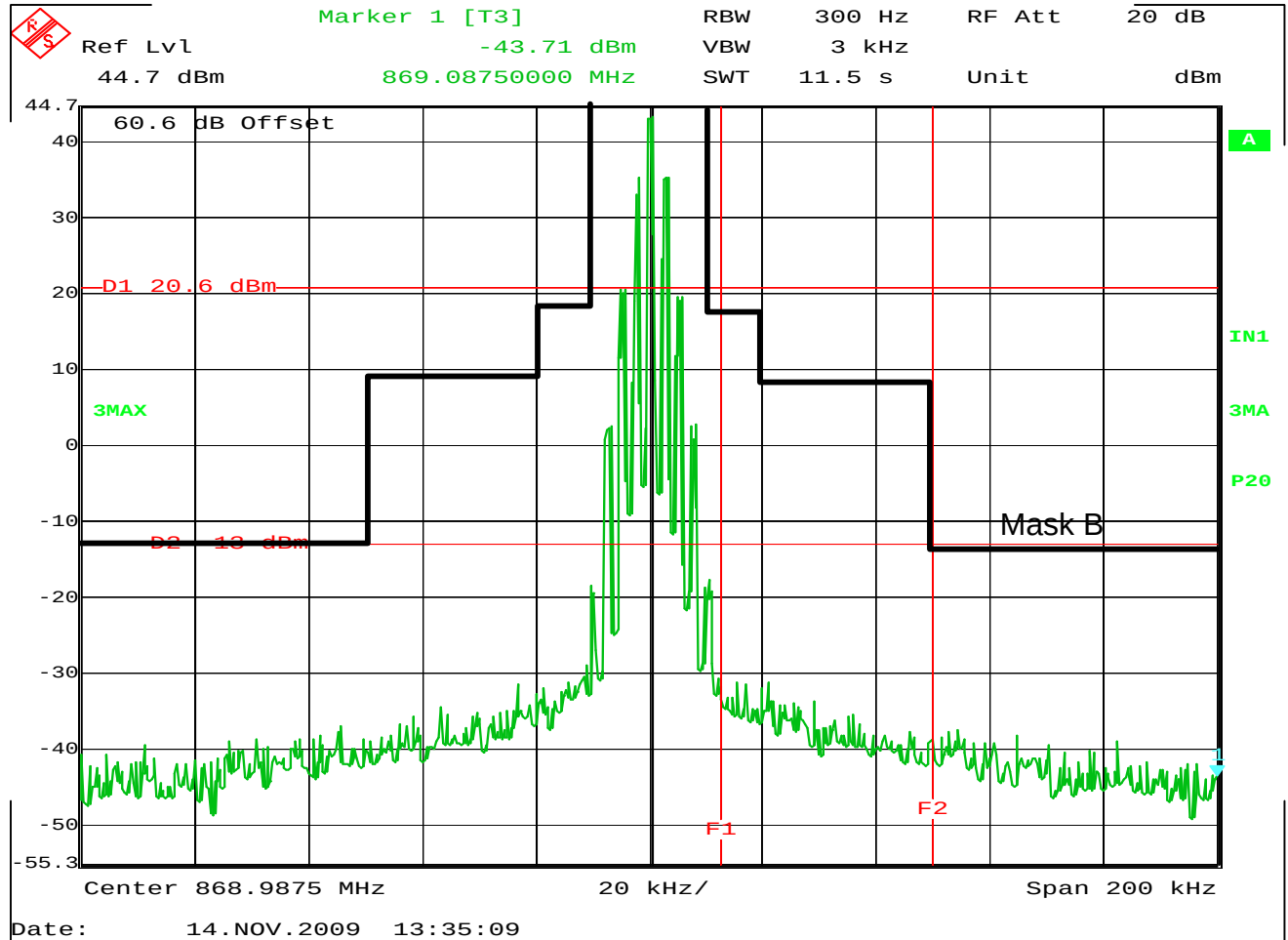
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: Digital Modulation



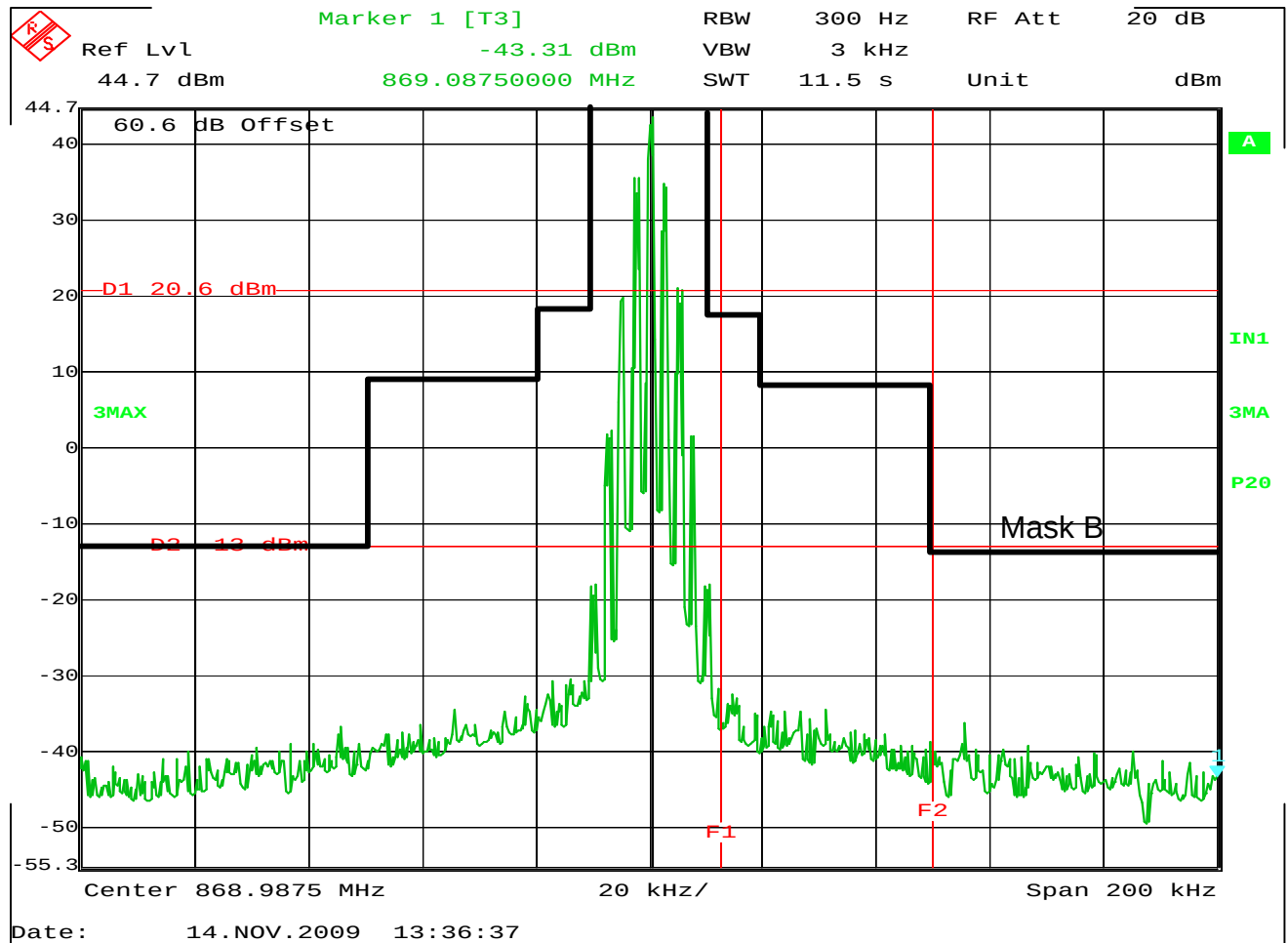
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



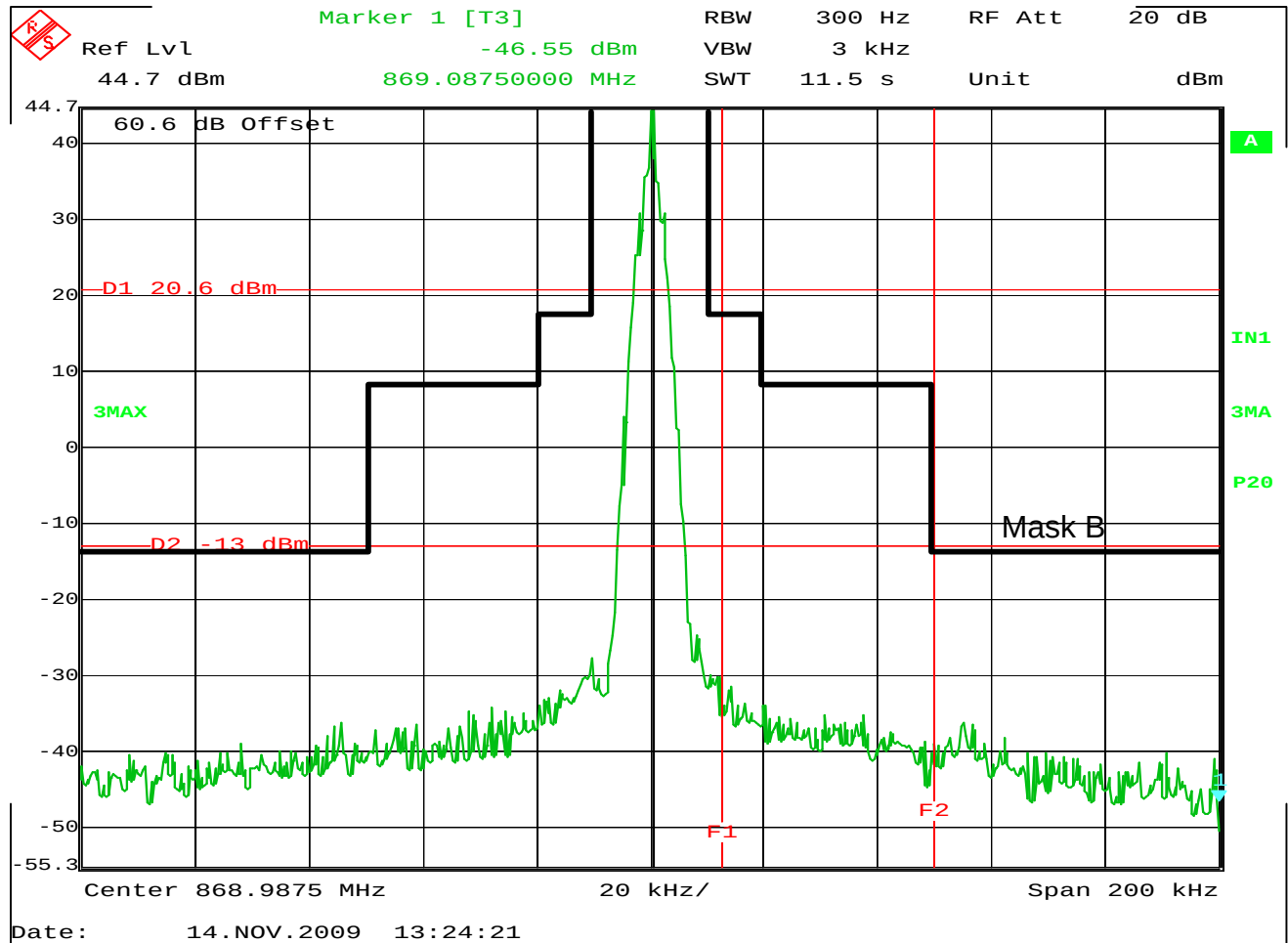
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + DPL



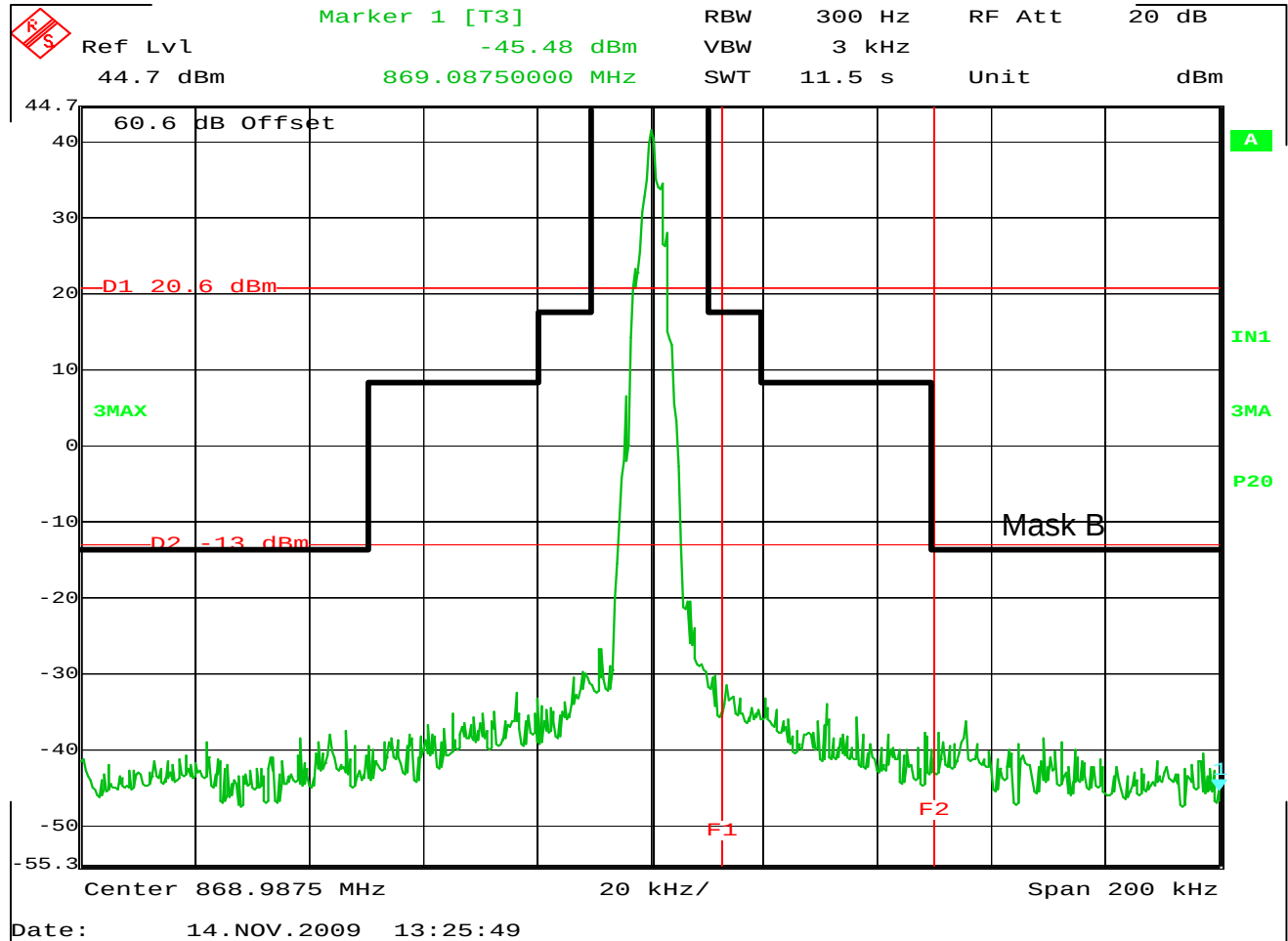
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + TPL



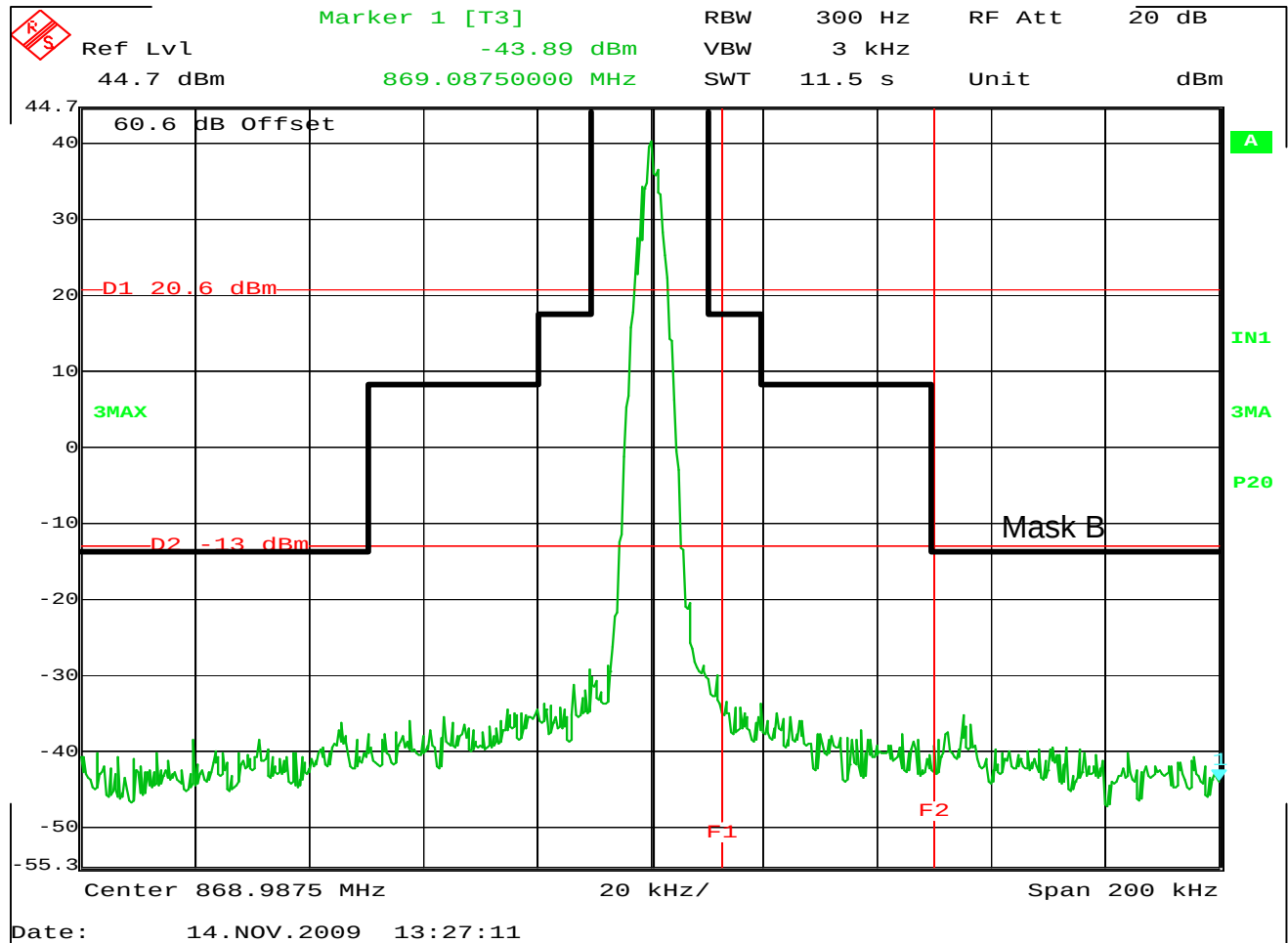
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF



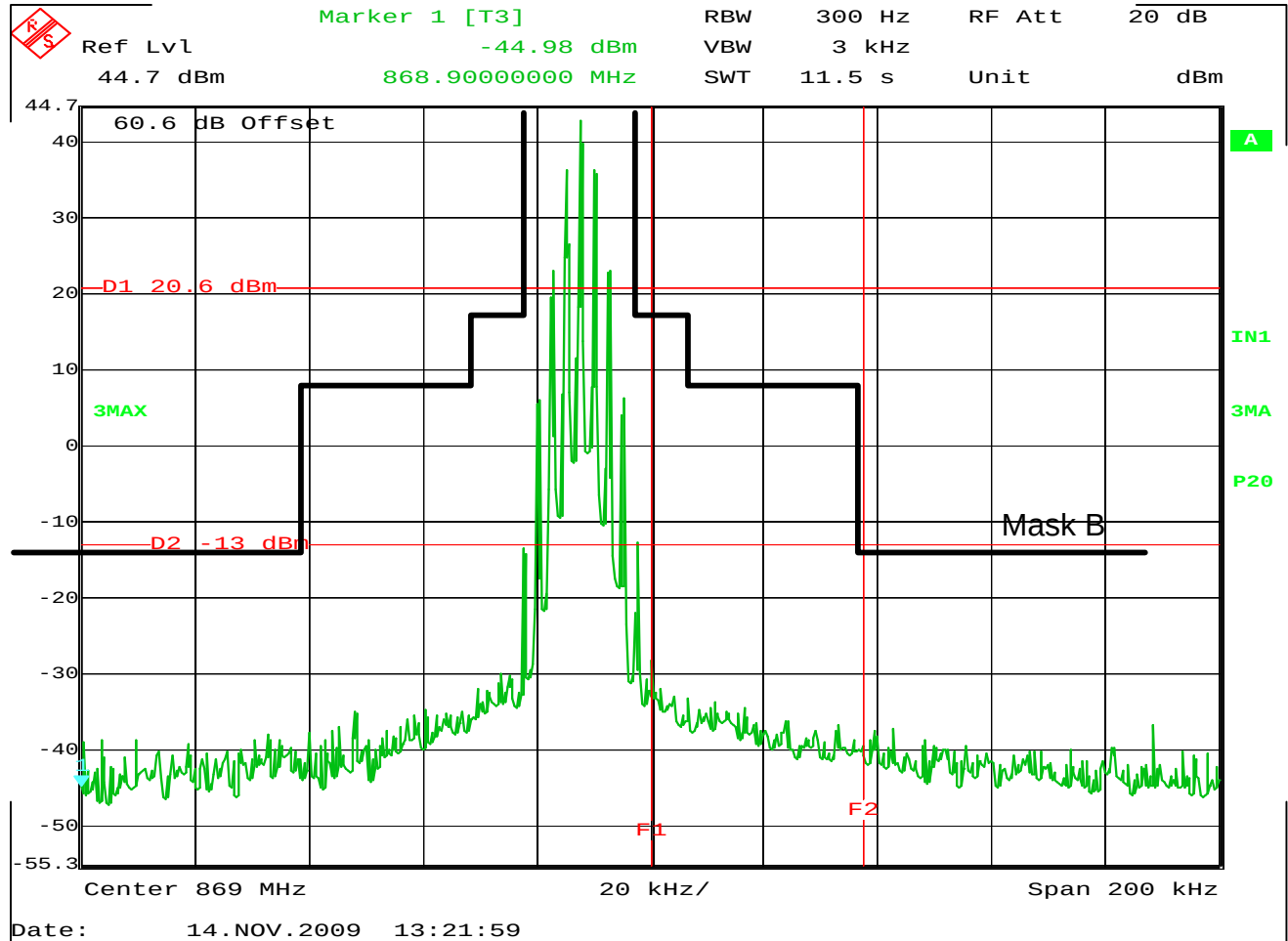
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + DPL



FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: DTMF + TPL

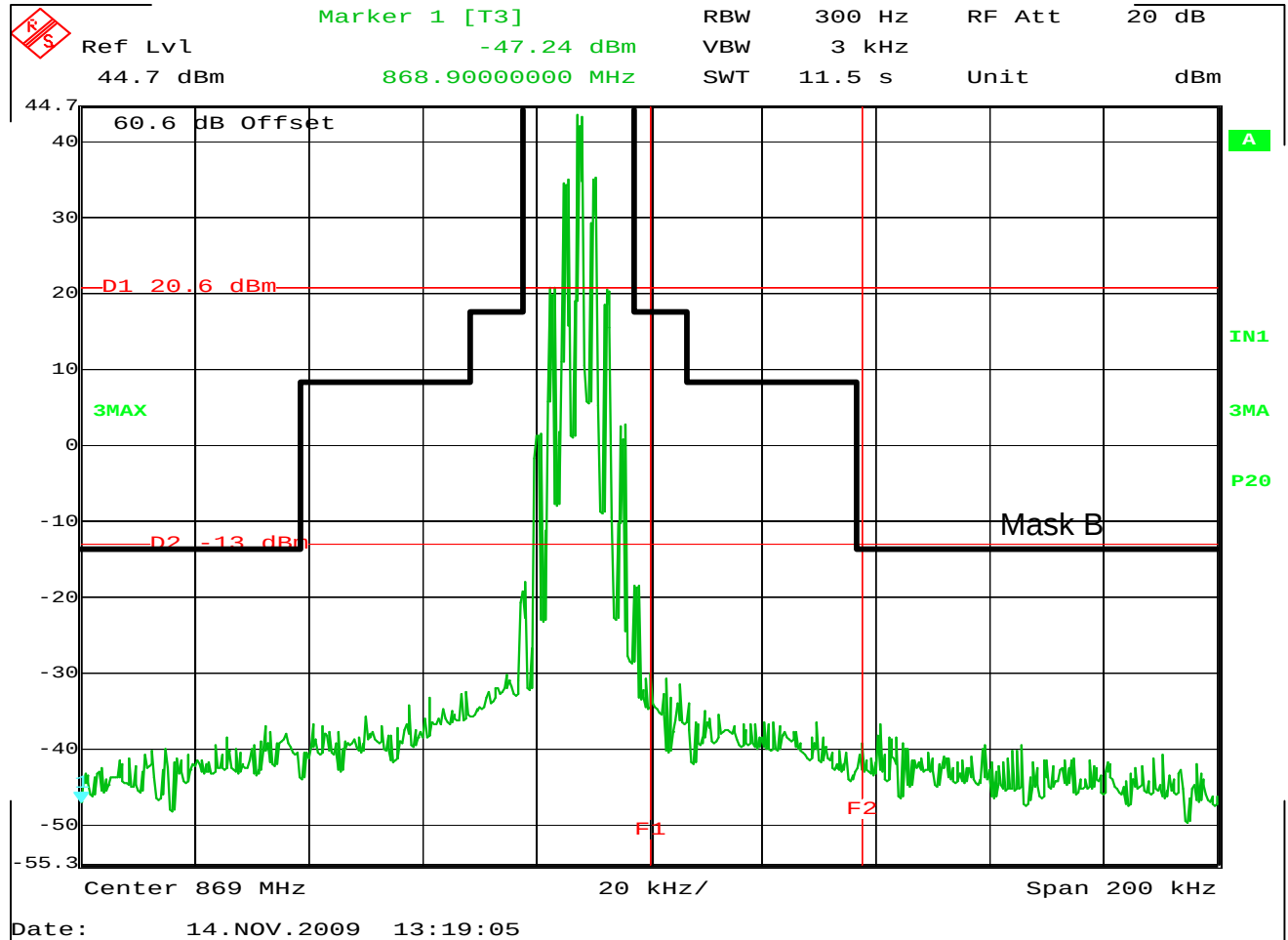


FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK

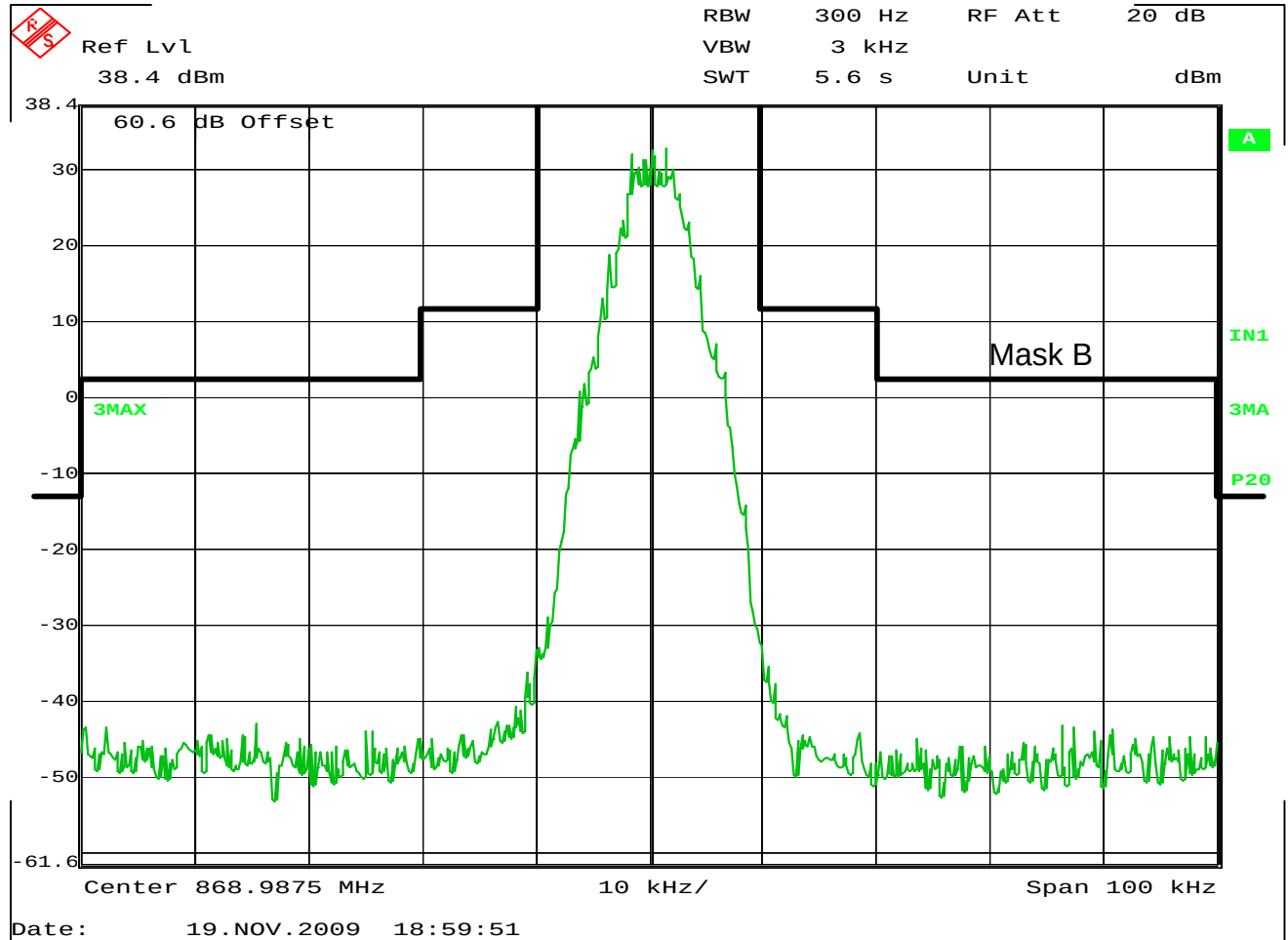


MANUFACTURER	: Motorola Inc.
MODEL	: AAM27VMR9JA7M
SERIAL NO.	: 484TKS3462
TEST MODE	: Transmit
FREQUENCY	: 868.9875MHz
POWER LEVEL	: 42W
CHANNEL SPACING	: 12.5kHz
NOTES	: Mask B
	: FSK + DPL



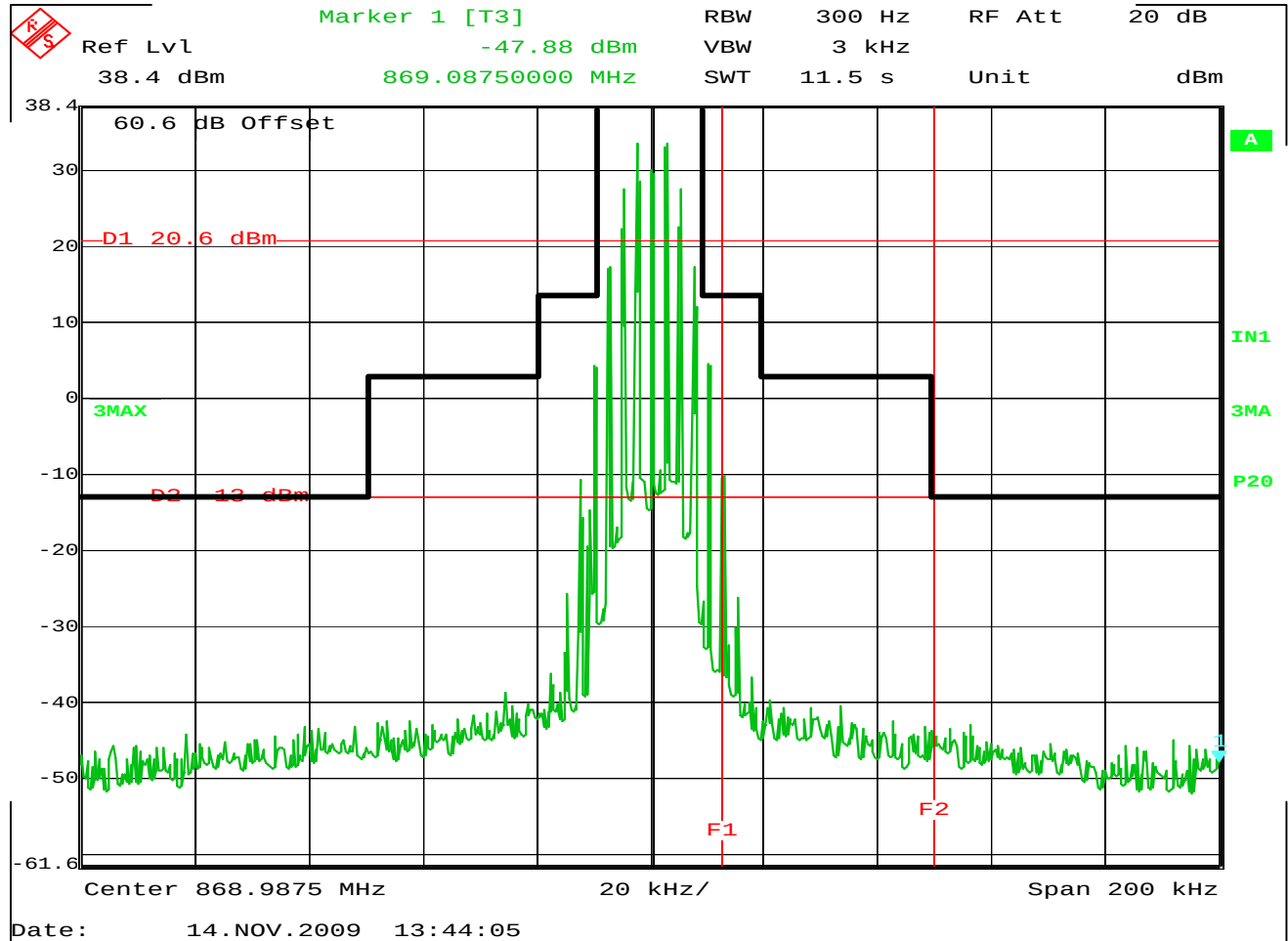
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: FSK + TPL



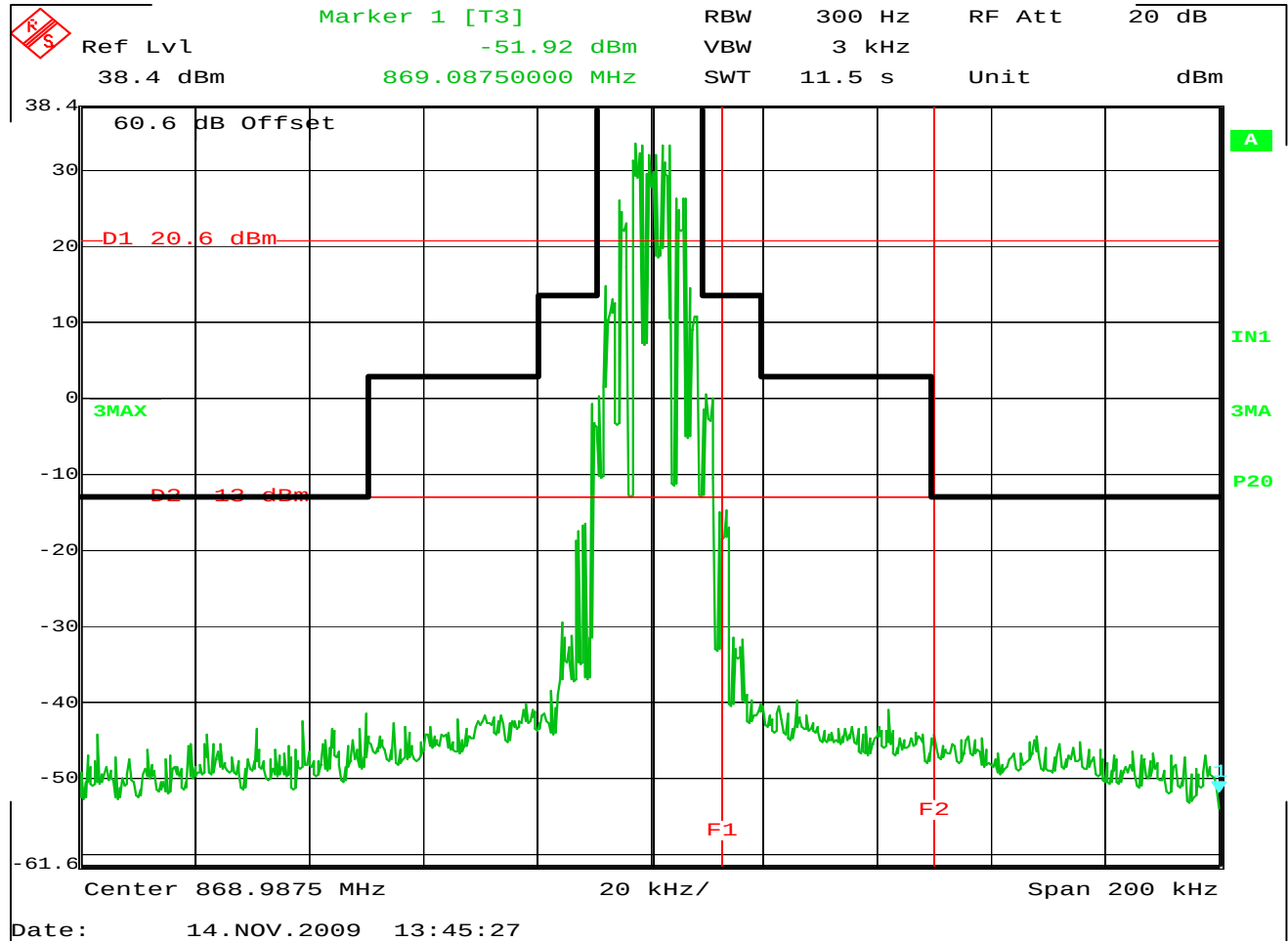
FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 42W
CHANNEL SPACING : 12.5kHz
NOTES : Mask B
: Digital Modulation



FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation



FCC PART 90 Occupied Bandwidth

MANUFACTURER : Motorola Inc.
MODEL : AAM27VMR9JA7M
SERIAL NO. : 484TKS3462
TEST MODE : Transmit
FREQUENCY : 868.9875MHz
POWER LEVEL : 10W
CHANNEL SPACING : 25kHz
NOTES : Mask B
: 2500Hz Tone, 16dB above 50% Deviation + DPL