

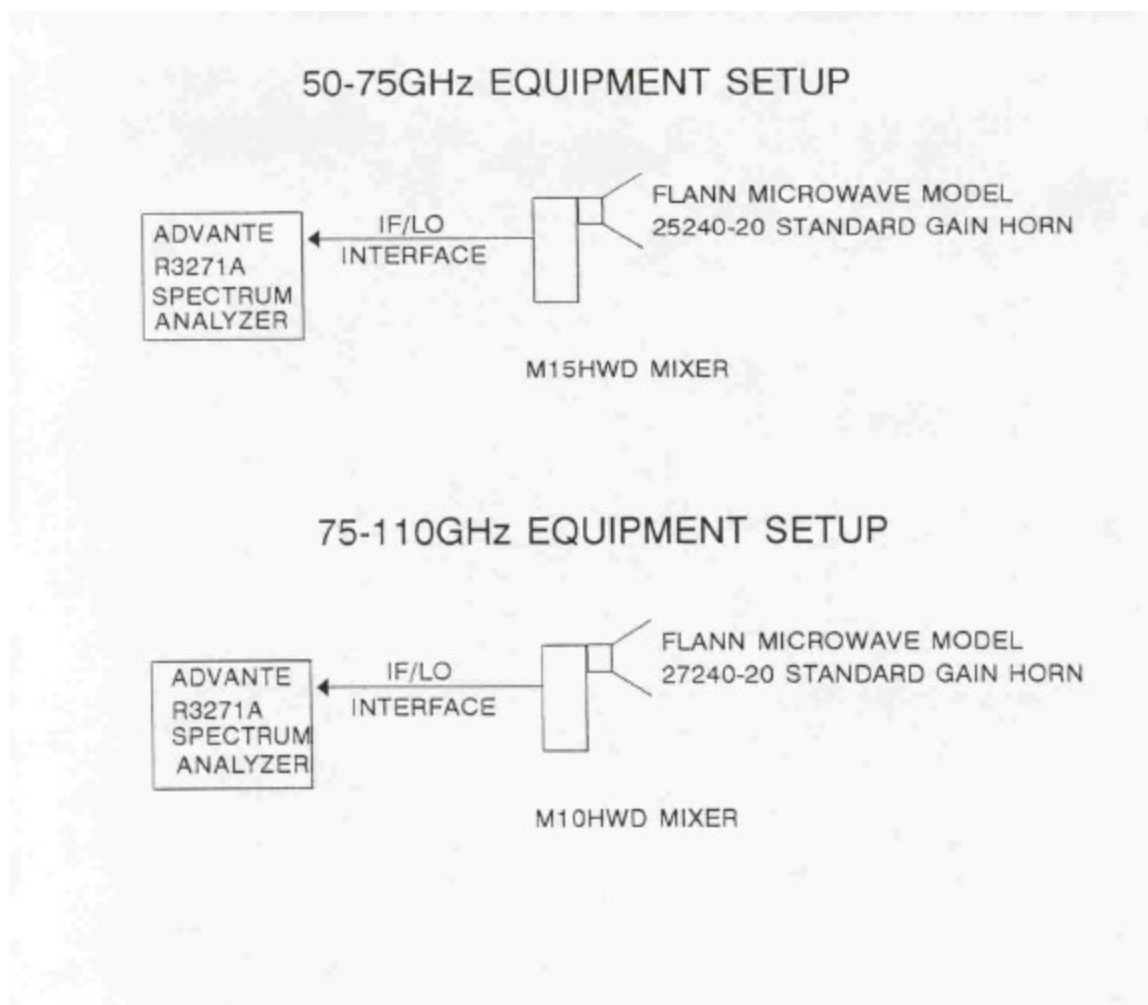


FIGURE 6.1.3-1 (CONT.)

6.1.3.1 Radiated 15.209((a)/101.111)

Radiated measurements were performed starting at 30MHz and extended out to 100GHz to include the requirements for covering 24GHz transmitter harmonics and spurious emissions. Quasi-peak detection was used from 30MHz to 1GHz. From 1GHz to 40GHz, both peak and average measurements were performed. Above 40GHz the peak measurements at 1MHz bandwidth were measured. The harmonics were measured at the Mid TX frequency. A scan at Mid frequency was performed to 100GHz for spurious content. Both vertical and horizontal polarizations are included in the data. Photo 6.1.3.1-1 presents the test site with the unit in place inside the enclosure.

Table 6.1.3.1-1 is a tabulated list of the signals detected including the transmitter frequency and harmonics.

RESULTS: The system does not have signals that appear above the requirement of Part 15 or Part 101 as tested in this report. In areas where the sensitivity was lacking, several techniques were used such as moving in closer or narrowing the bandwidths. The sensitivity was increased in the mixers range by using a 500MHz low pass filter to separate the IF/LO frequencies to the mixer. A second analyzer was used to observe the 431MHz IF.

Rubicom Systems, Inc. is confident that the methods used show the unit compliant.

The MASK requirement of 101.111(2)(ii) is shown in Data Sheets 6.1.3.1-1 through 6.1.3.1-6. The maximum attenuation requirement of 56dB at the 250% points is applicable.

Outside the 250% bandwidth the limit was established at 33dB attenuation required below the transmitter. The measurements were made using the radiated technique. The transmitter output for this application is approximately 30dB below the allowed 55dBW EIRP.

Plotter data for the quasi-peak scans over the entire 30MHz-100GHz range are presented on Data Sheets 6.1.3.1-7 through 6.1.3.1-26.

Average data plots to 40GHz are presented on Data Sheets 6.1.3.1-27 through 6.1.3.1-52.

Ambient data for the 30MHz-1GHz range for this test effort is on file at Rubicom Systems, Inc. under JA-1742 should it be required.



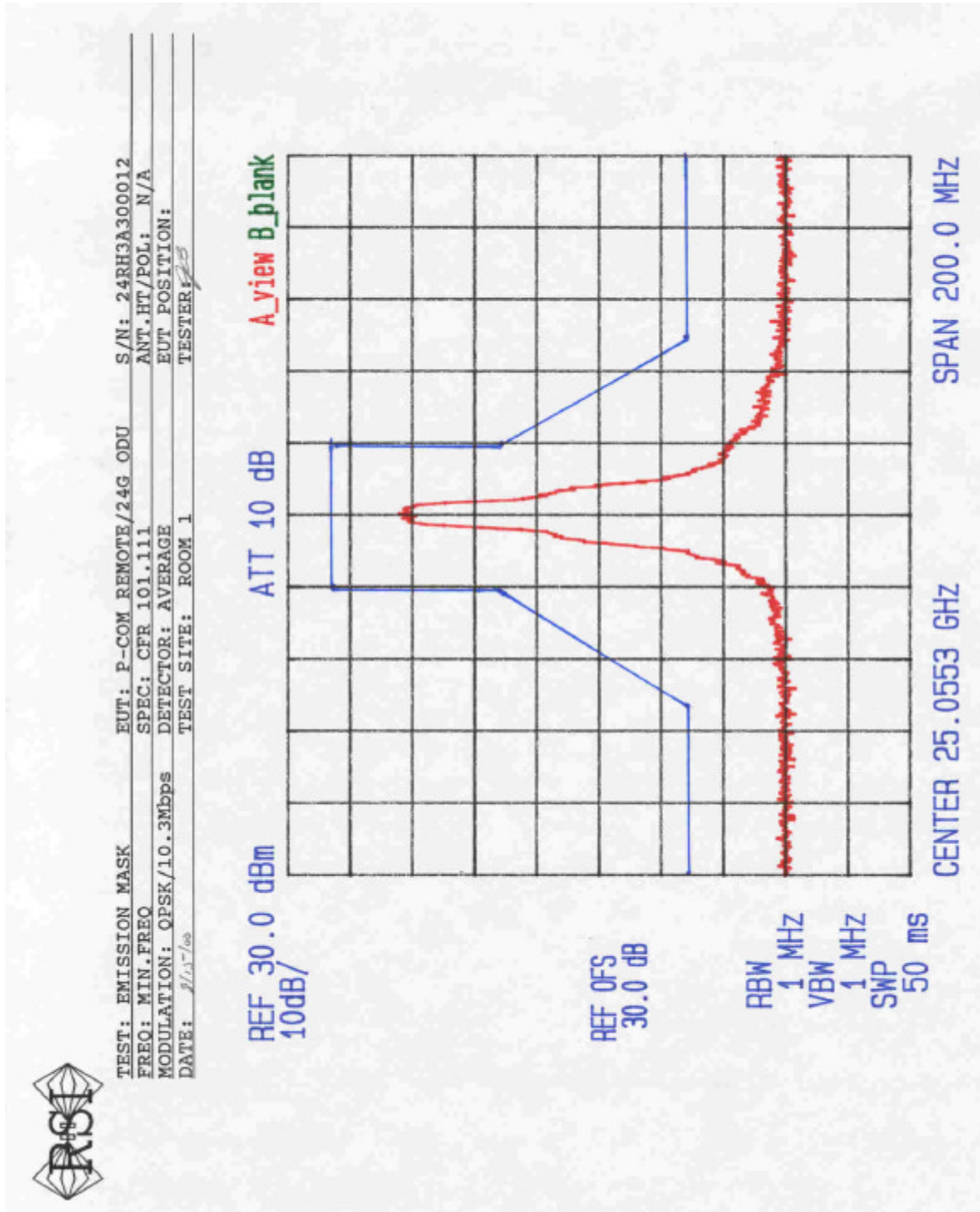
PHOTO 6.1.3.1-1

FCC RADIATED EMISSIONS TABULATED RESULTS

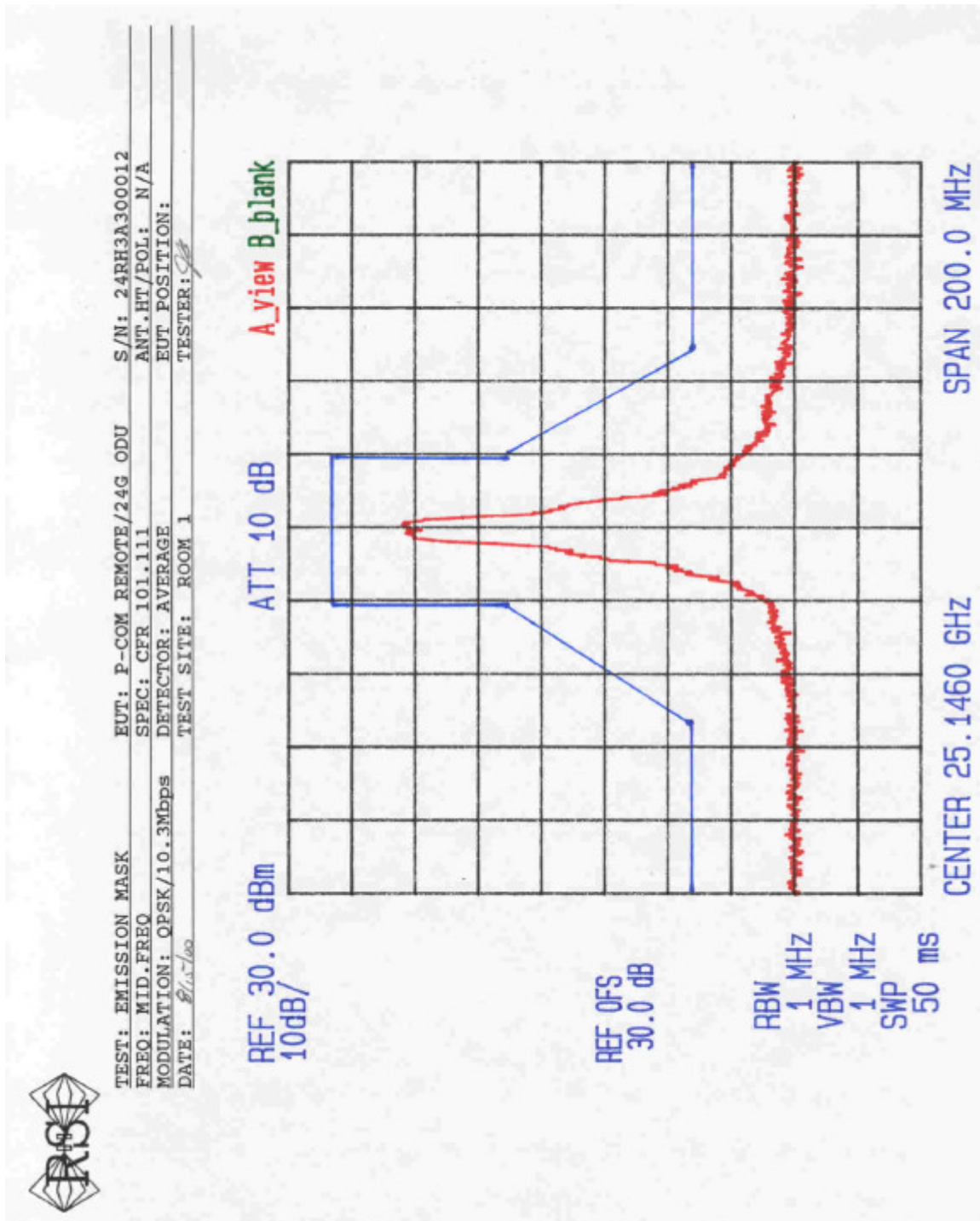
EUT MODEL: P-COM 24GHz REMOTE OUTDOOR UNITS/N: 24RH3A300012 DATE: 08/15/2000 TESTER: JB

FREQUENCY	ANTENNA POL.	MEASURED (dB μ V/m)	LIMIT	MARGIN (dB)
25.07GHz	H	139	N/A	N/A
25.07GHz	V	127	N/A	N/A
50.14GHz	H	105	107	<-2
50.14GHz	V	105	107	<-2
75.2GHz	H	<106	107	<-1
75.2GHz	V	<106	107	<-1
24.208GHz	H	66	79	-13
100.3GHz	H	<106	107	<-1
100.3GHz	V	<106	107	<-1
300MHz	H	40	46	-6
400MHz	H	39.5	46	-6.5

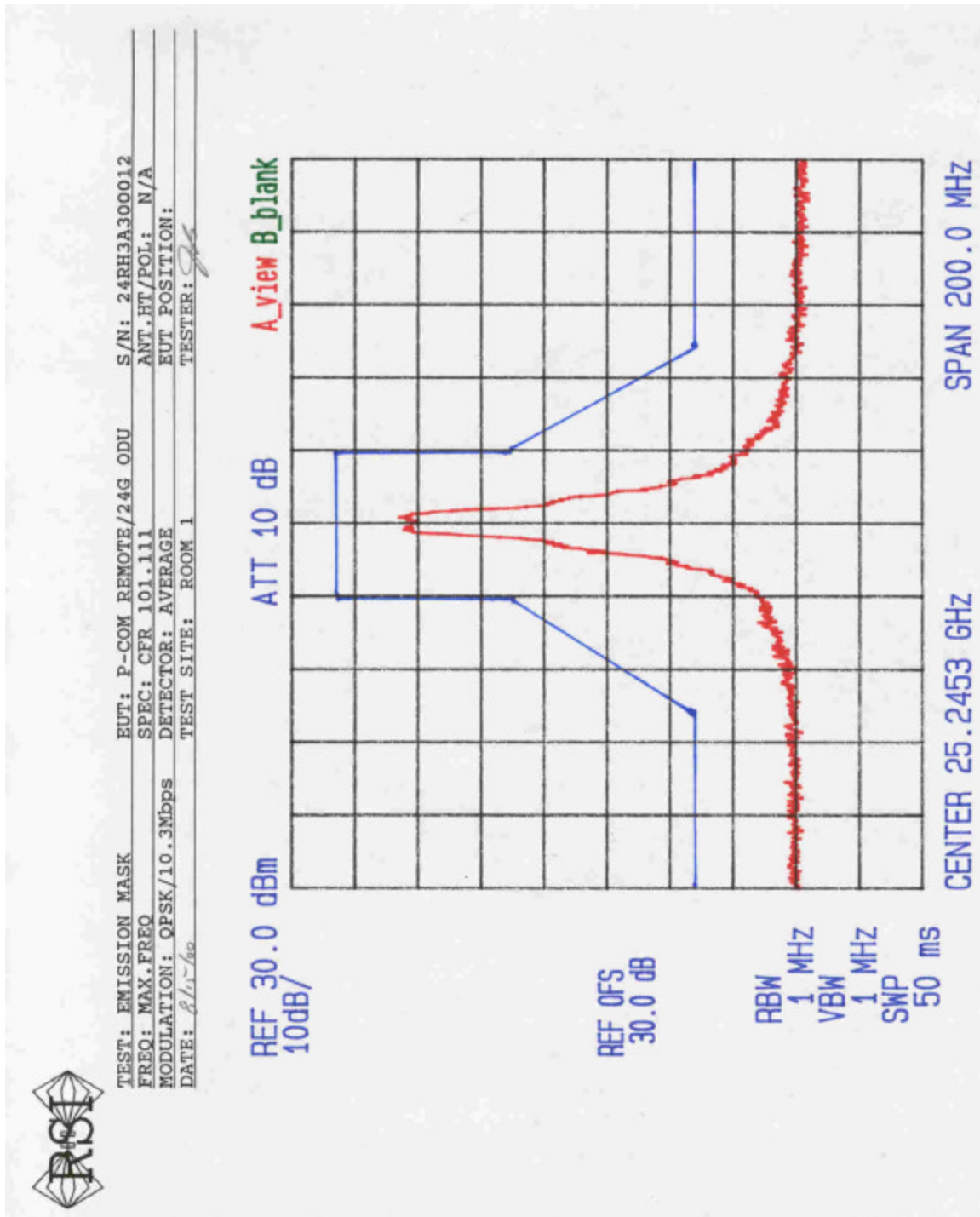
TABLE 6.1.3.1-1



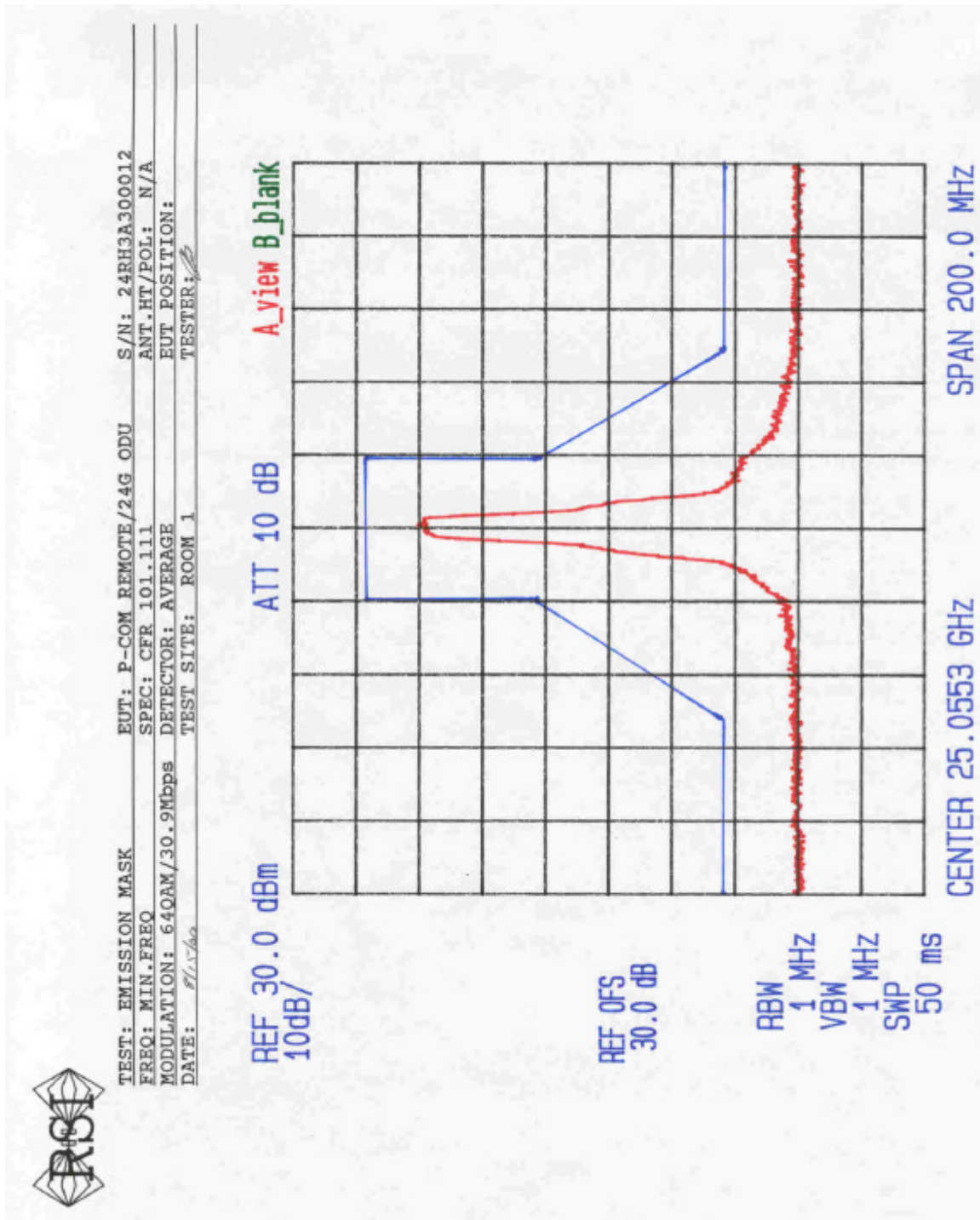
DATA SHEET 6.1.3.1-1



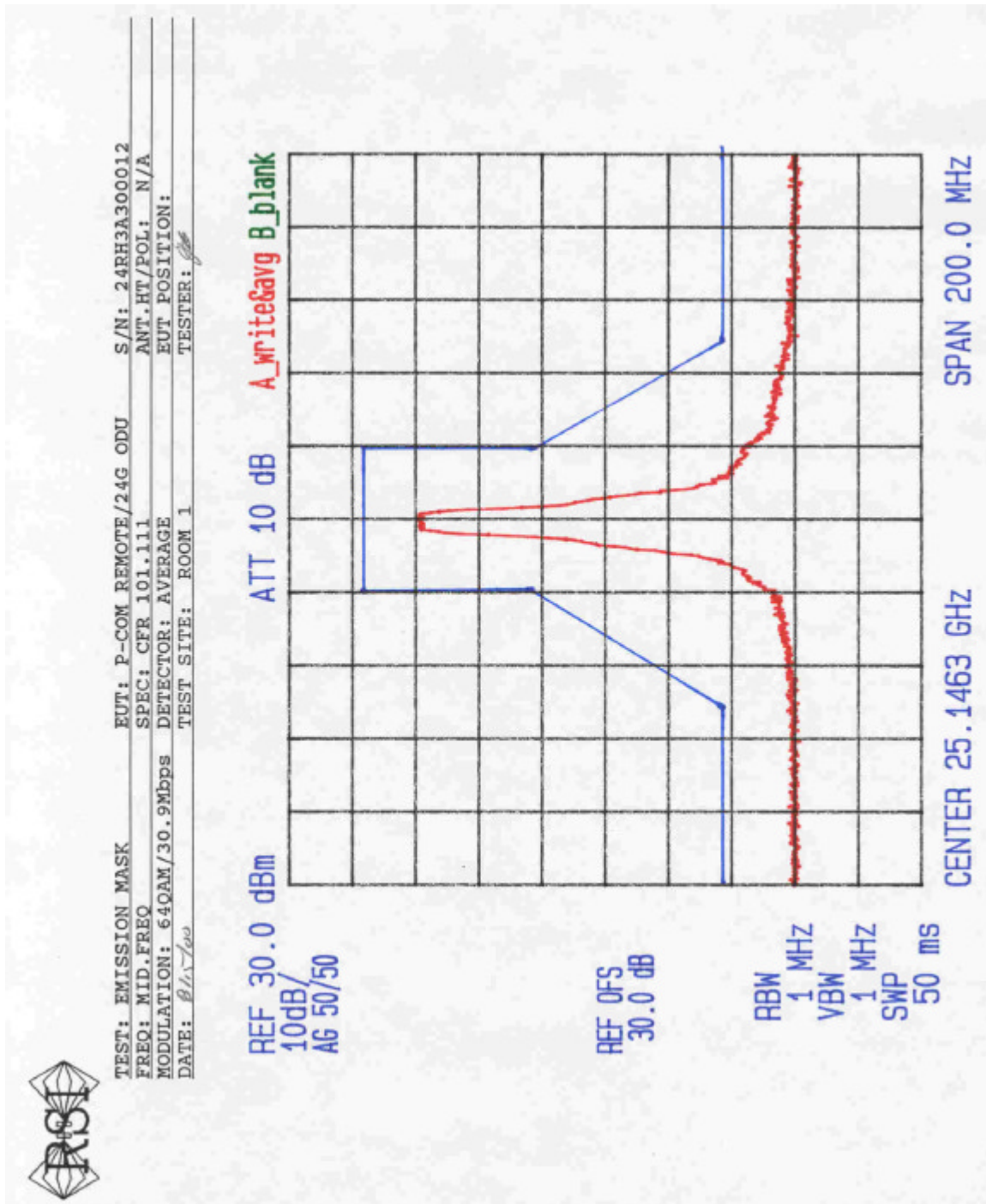
DATA SHEET 6.1.3.1-2



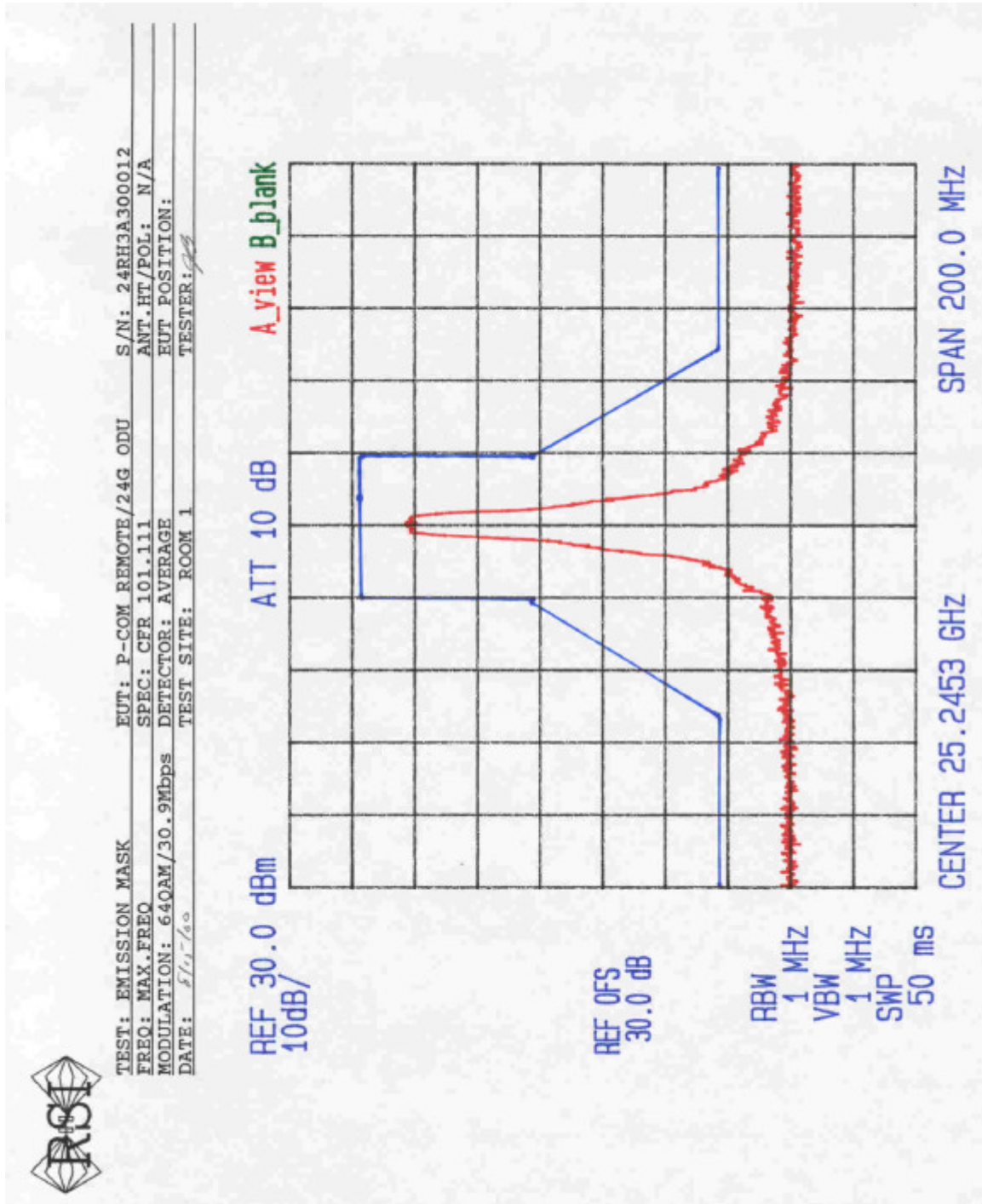
DATA SHEET 6.1.3.1-3



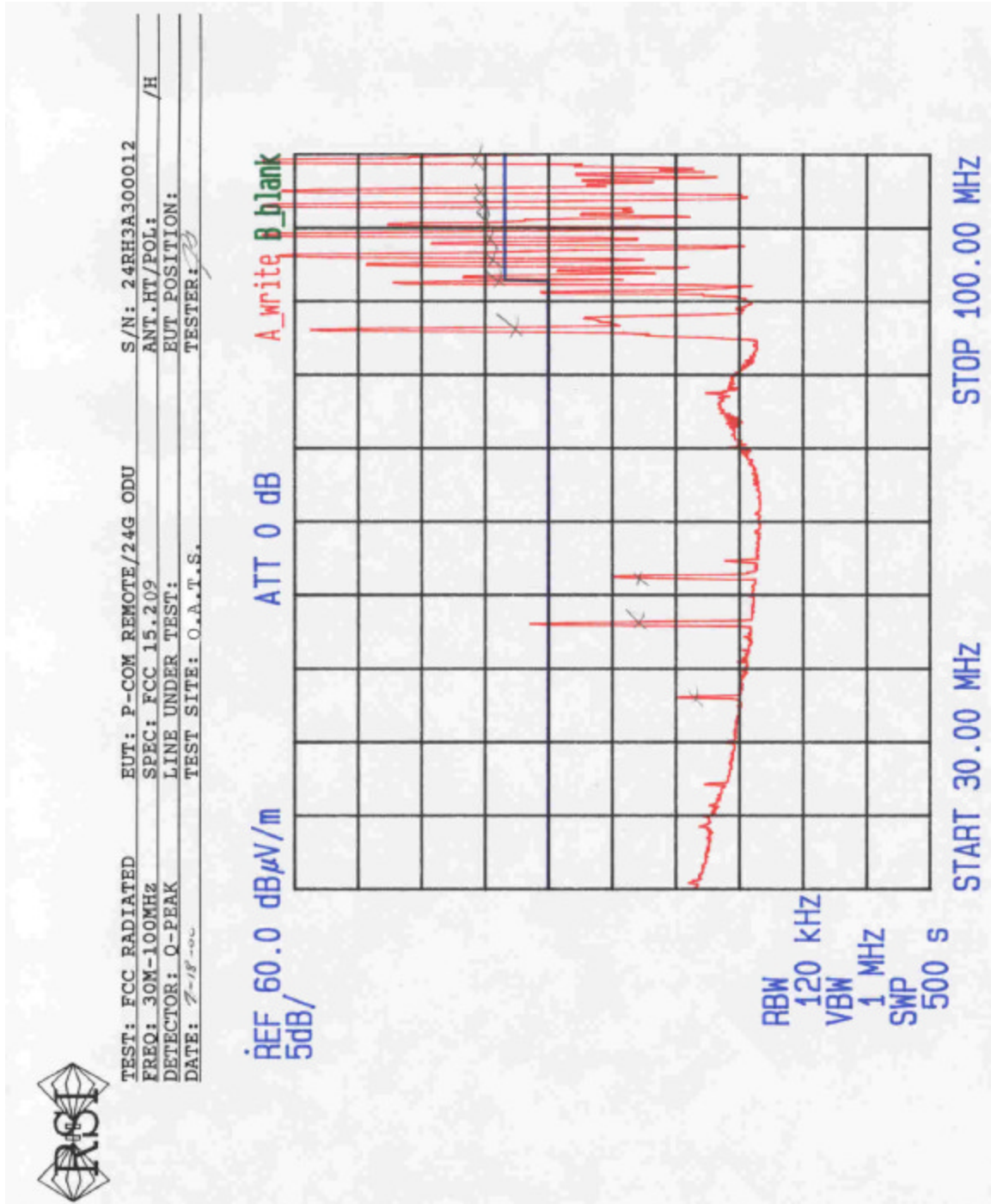
DATA SHEET 6.1.3.1-4



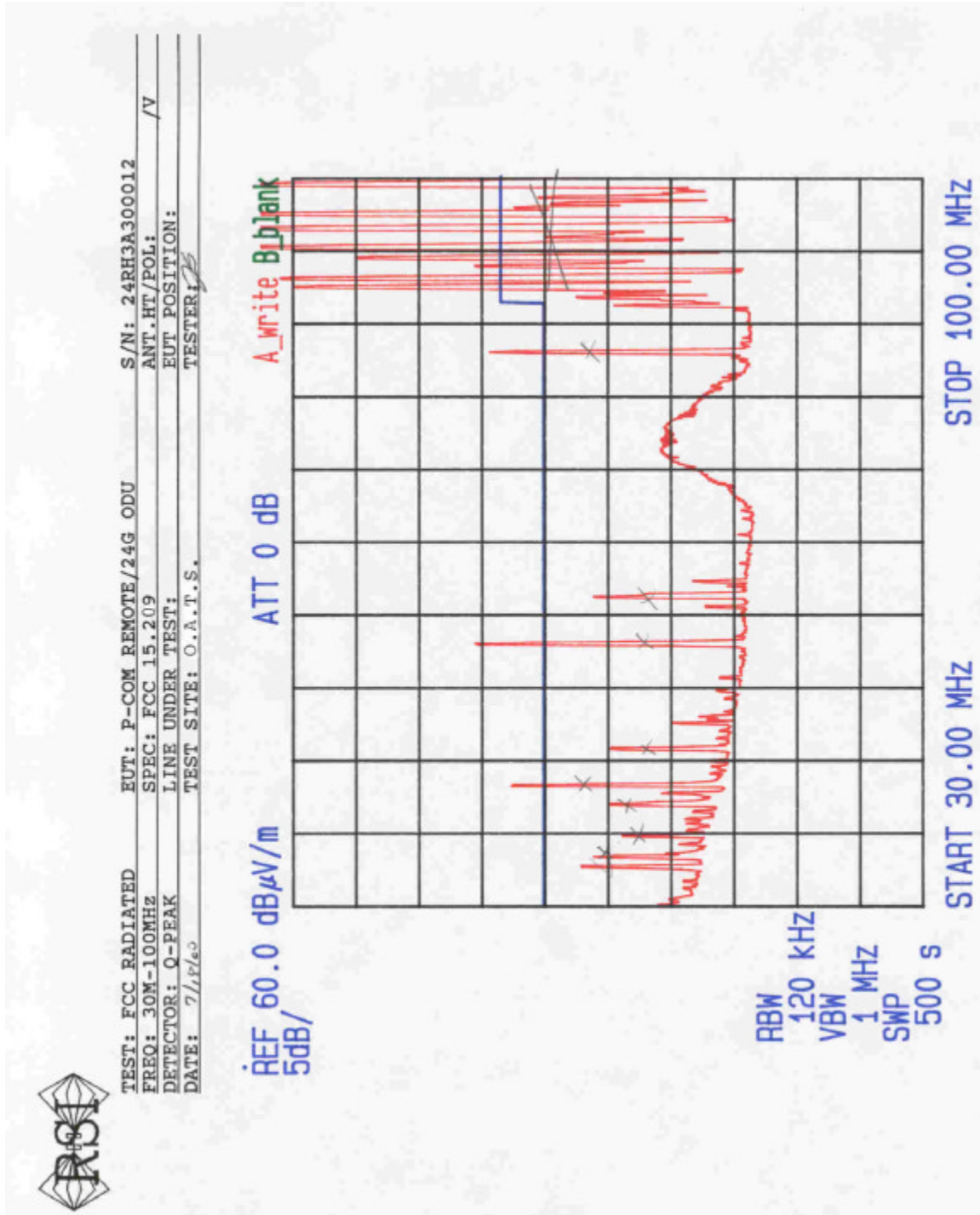
DATA SHEET 6.1.3.1-5



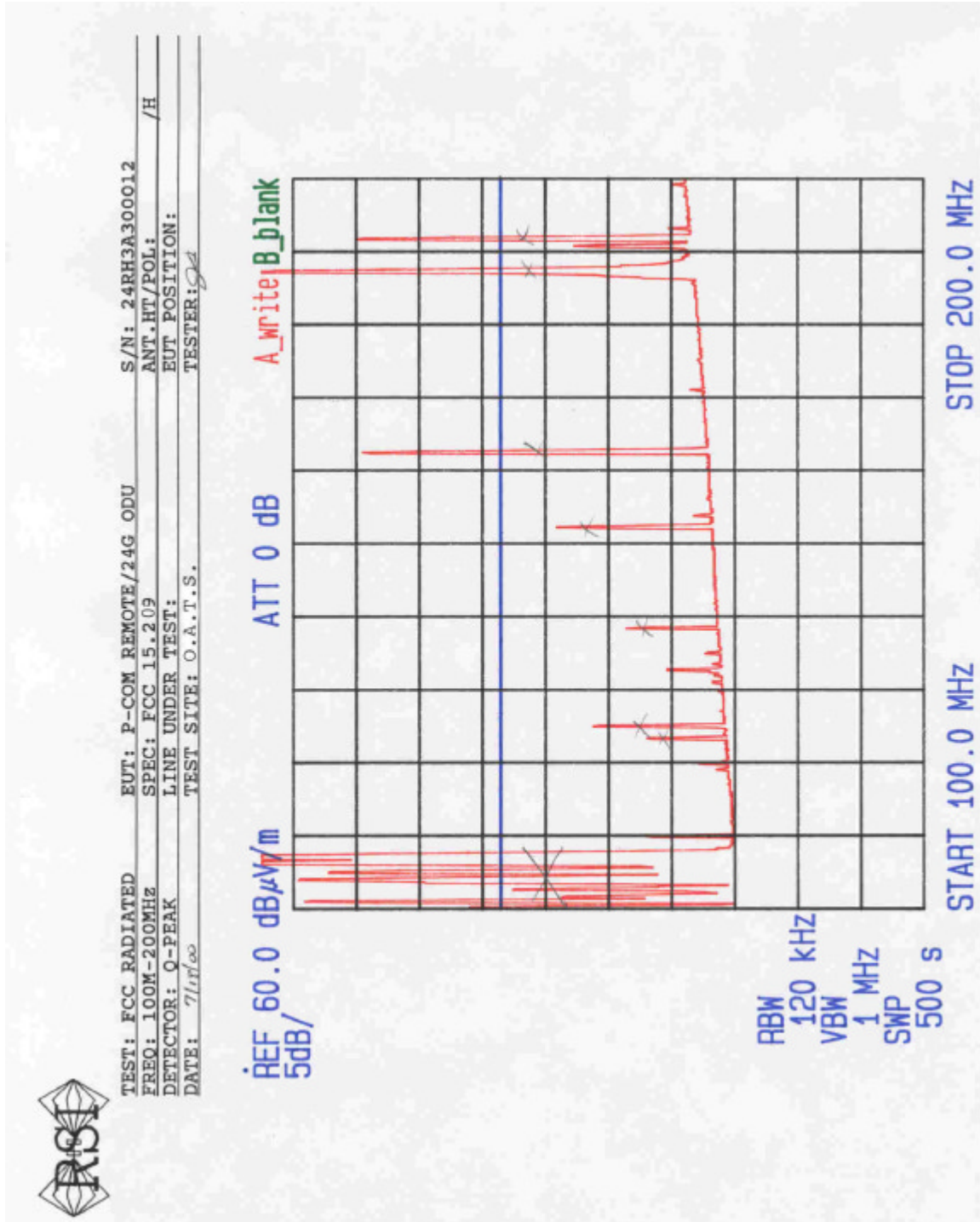
DATA SHEET 6.1.3.1-6



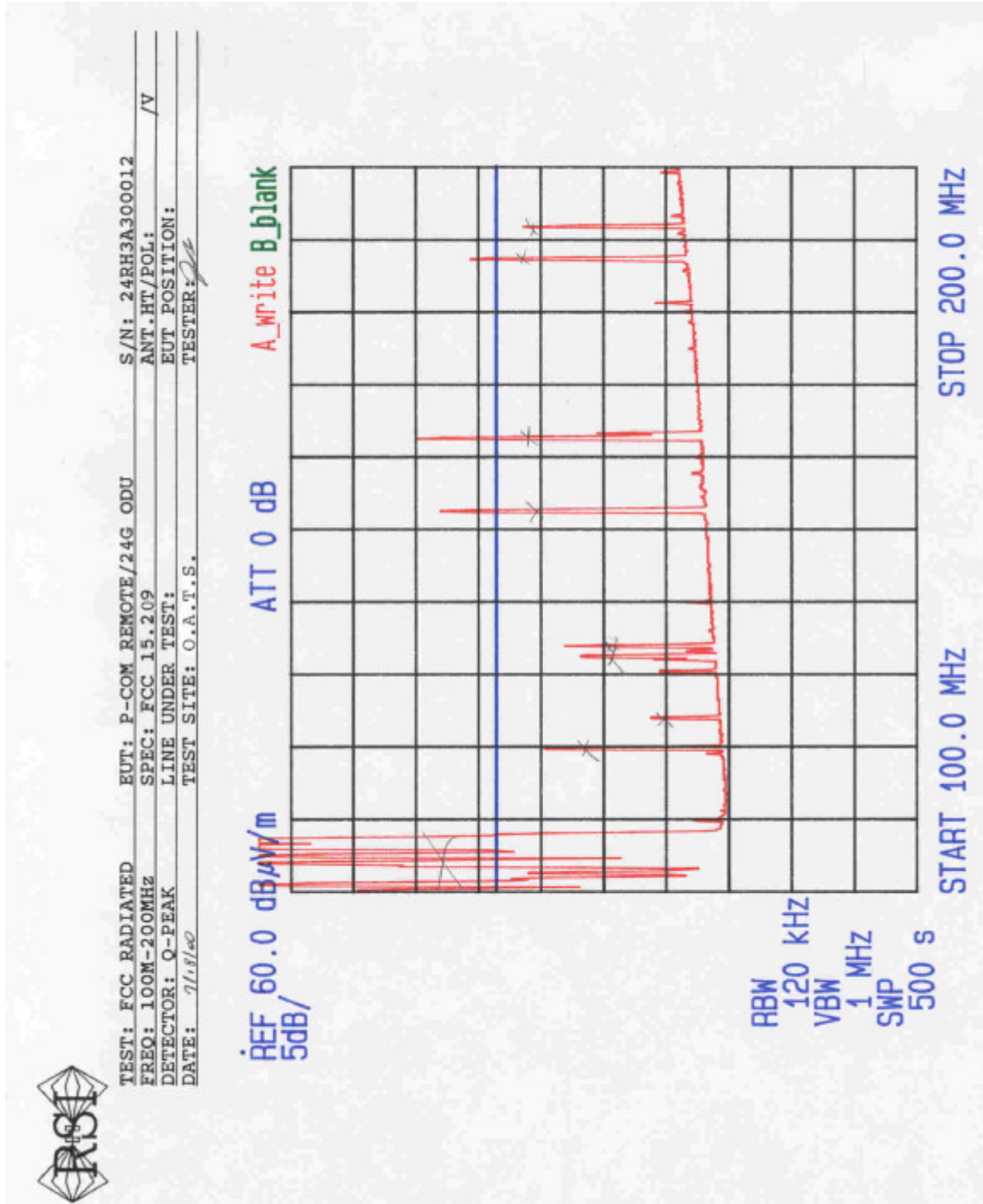
DATA SHEET 6.1.3.1-7



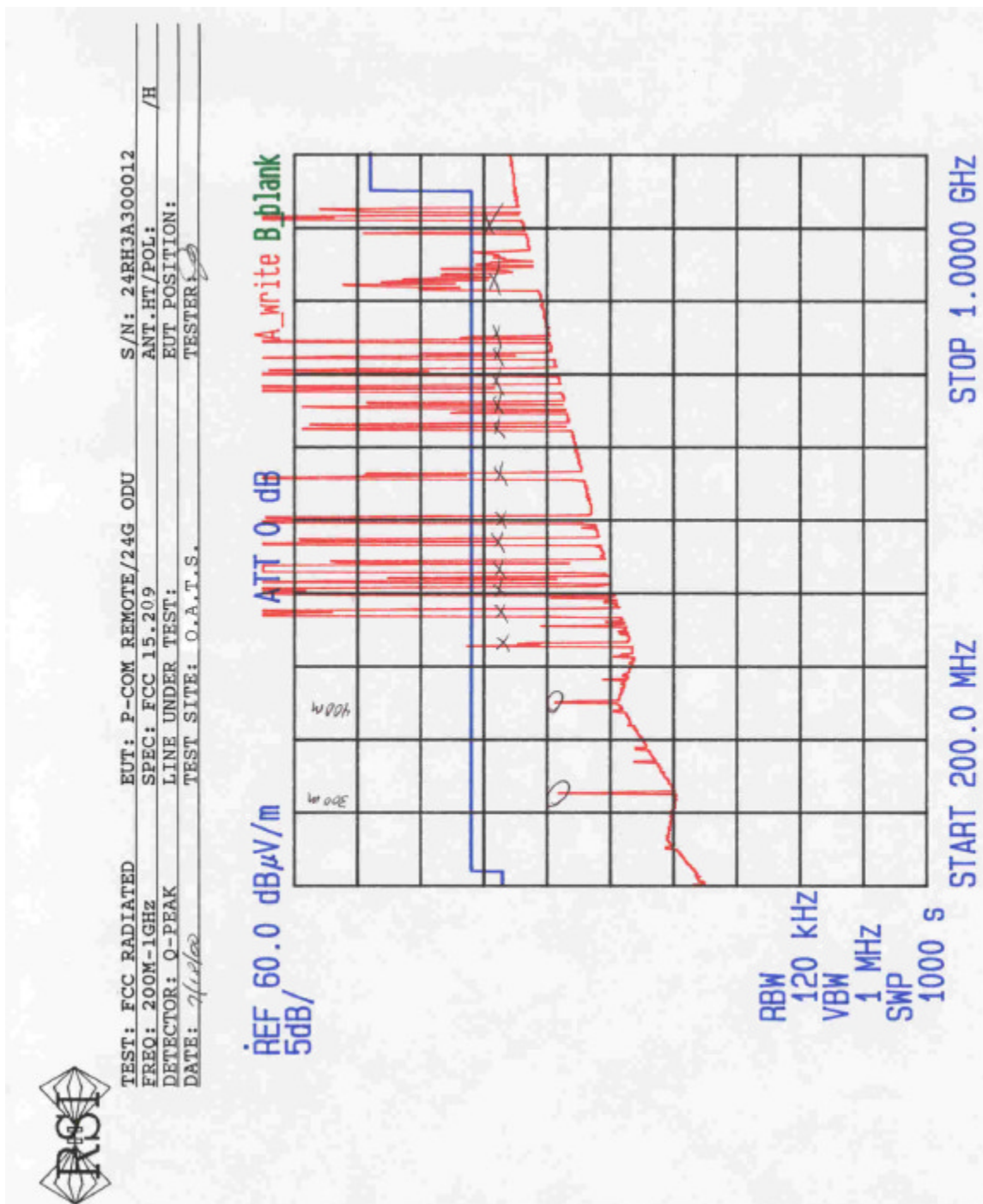
DATA SHEET 6.1.3.1-8



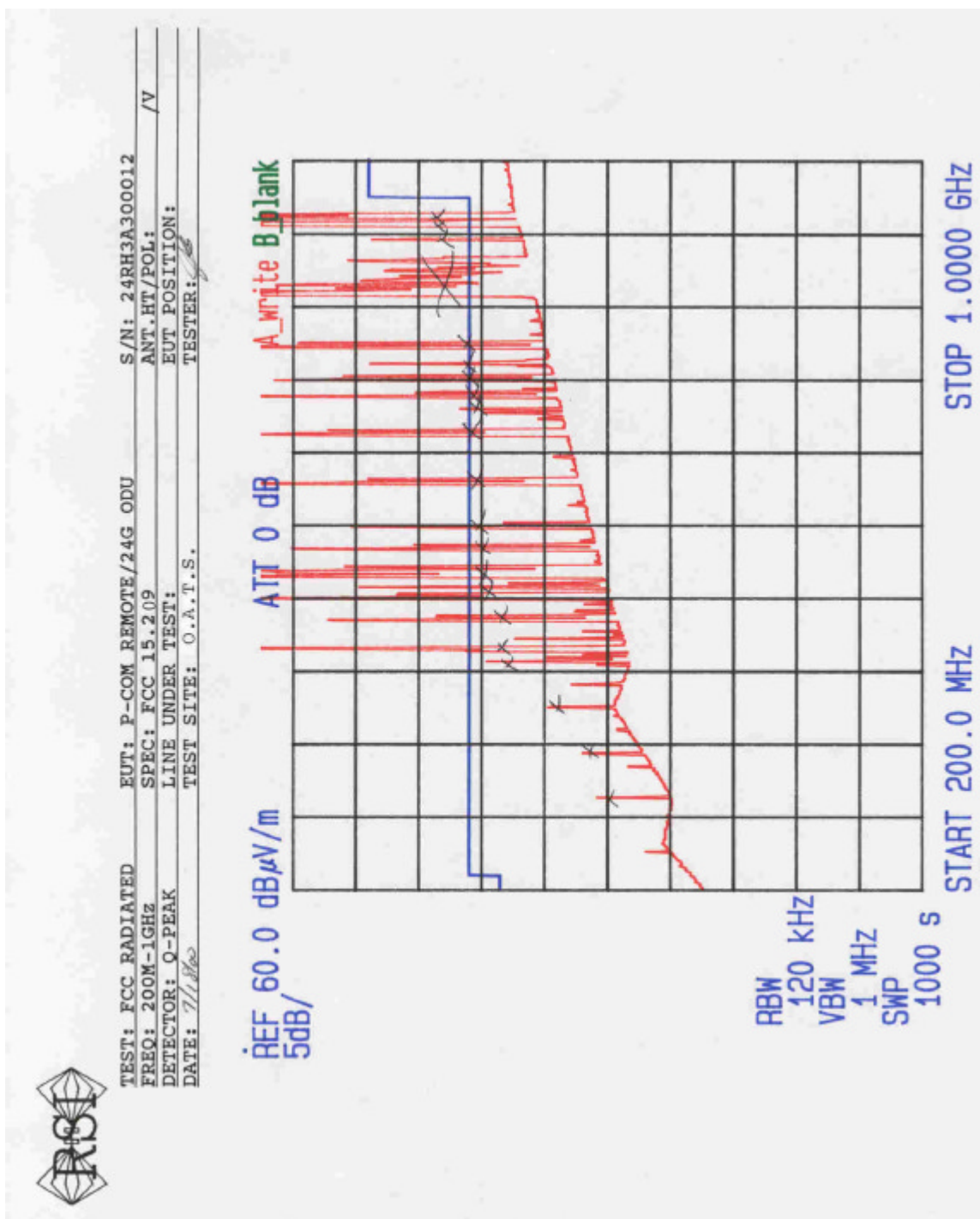
DATA SHEET 6.1.3.1-9



DATA SHEET 6.1.3.1-10



DATA SHEET 6.1.3.1-11

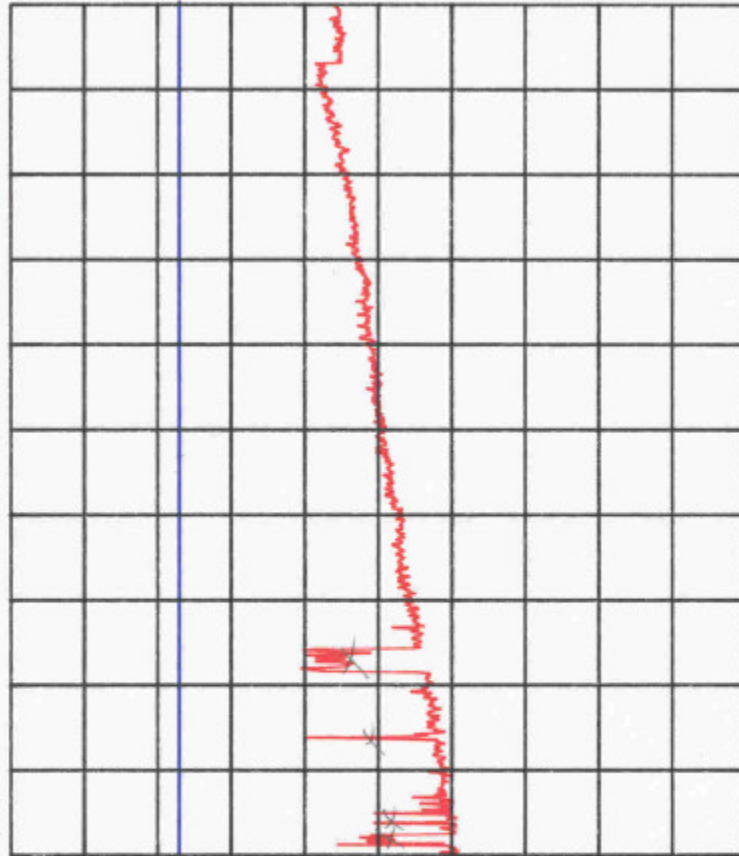


DATA SHEET 6.1.3.1-12



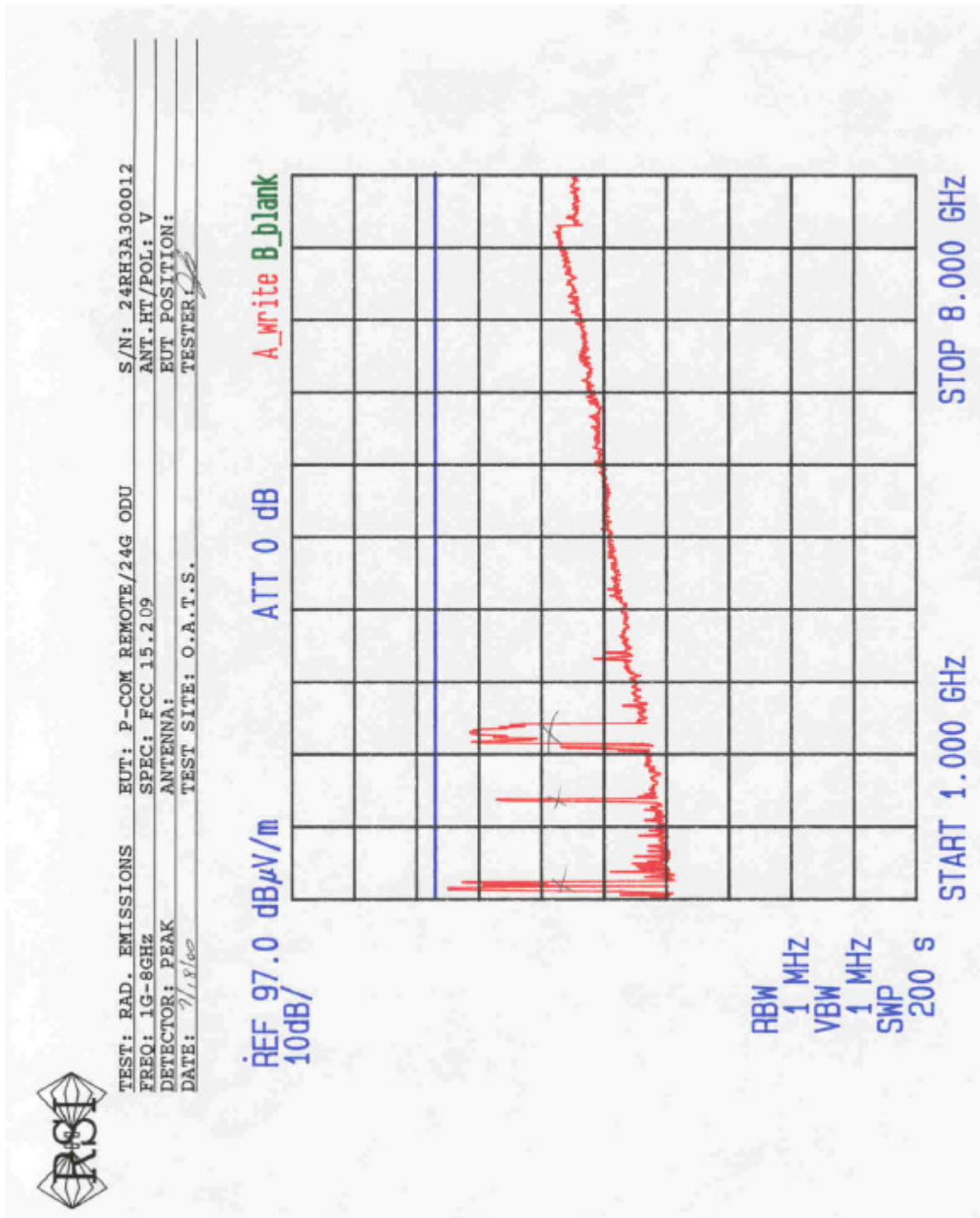
TEST: RAD. EMISSIONS	EUT: P-COM REMOTE/24G ODU	S/N: 24RH3A300012
FREQ: 1G-8GHz	SPEC: FCC 15.209	ANT. HT/POL: H
DETECTOR: PEAK	ANTENNA:	EUT POSITION:
DATE: 7-11-00	TEST SITE: O.A.T.S.	TESTER: JB

REF 97.0 dB μ V/m ATT 0 dB A_write B_blank
10dB/

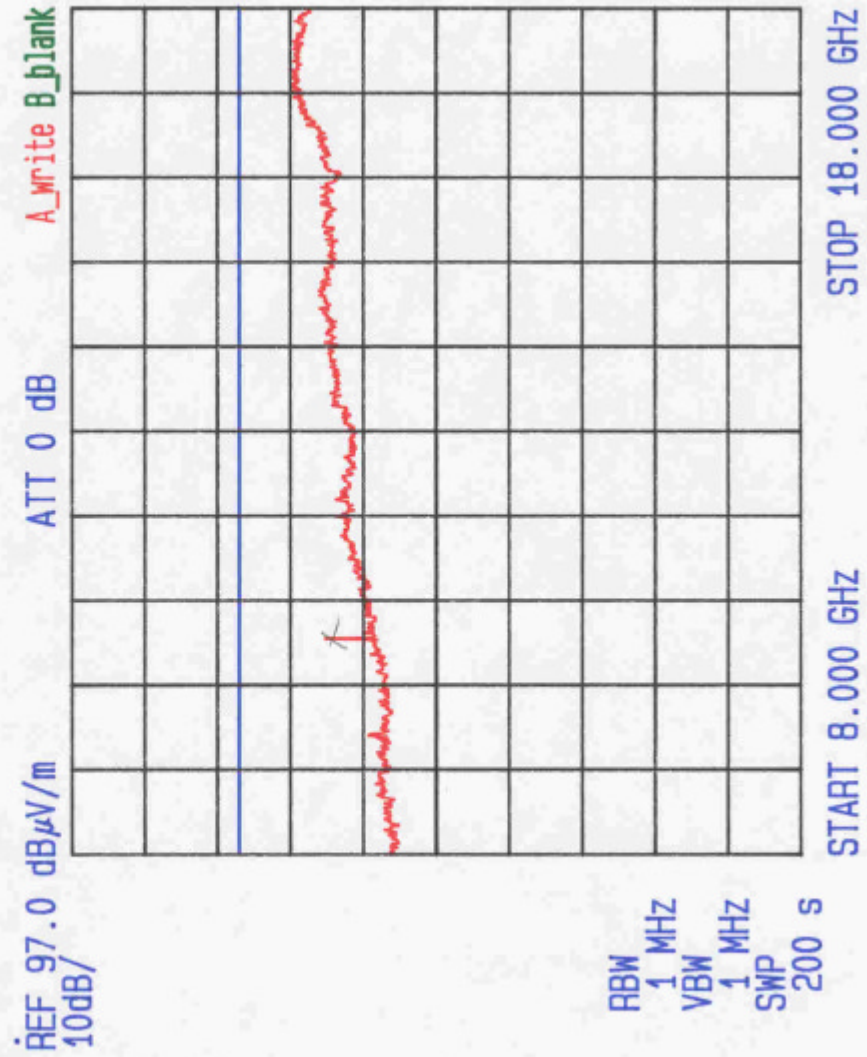
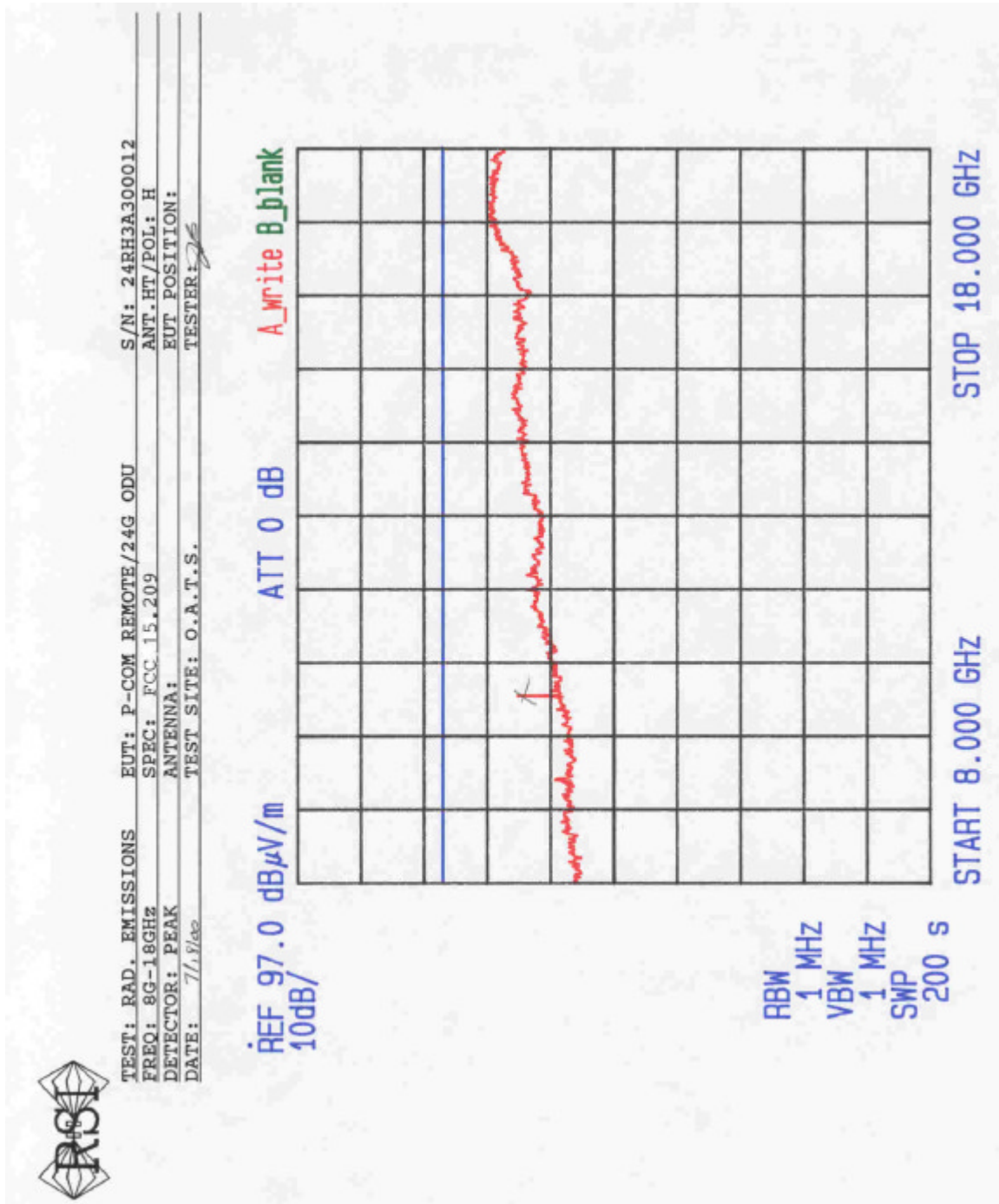


RBW 1 MHz
VBW 1 MHz
SWP 200 s

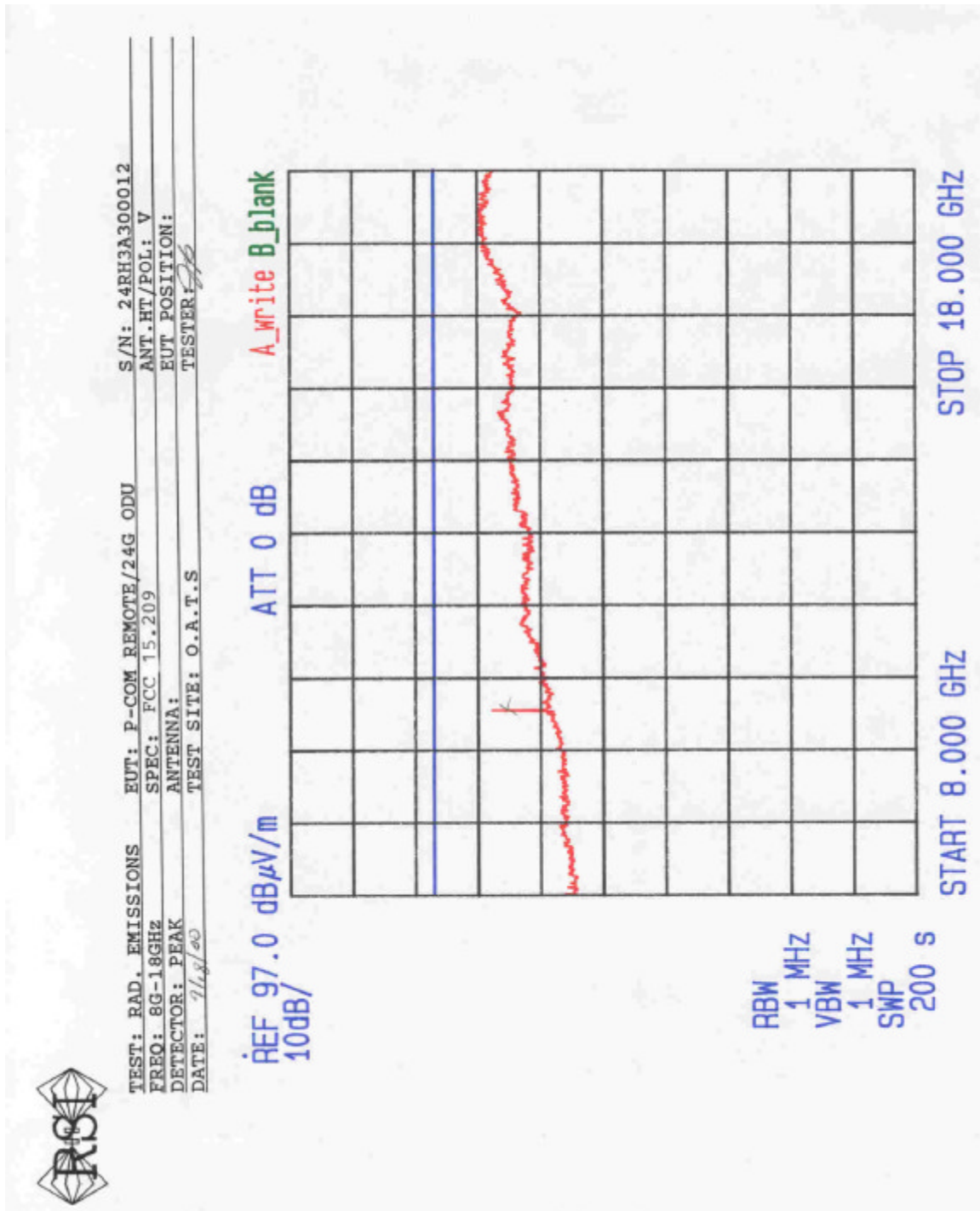
START 1.000 GHz STOP 8.000 GHz



DATA SHEET 6.1.3.1-14



DATA SHEET 6.1.3.1-15



DATA SHEET 6.1.3.1-16