



RADIATION SCIENCES INC.

FCC CONDUCTED EMISSIONS CLASS B (Neutral 431MHz. RX)

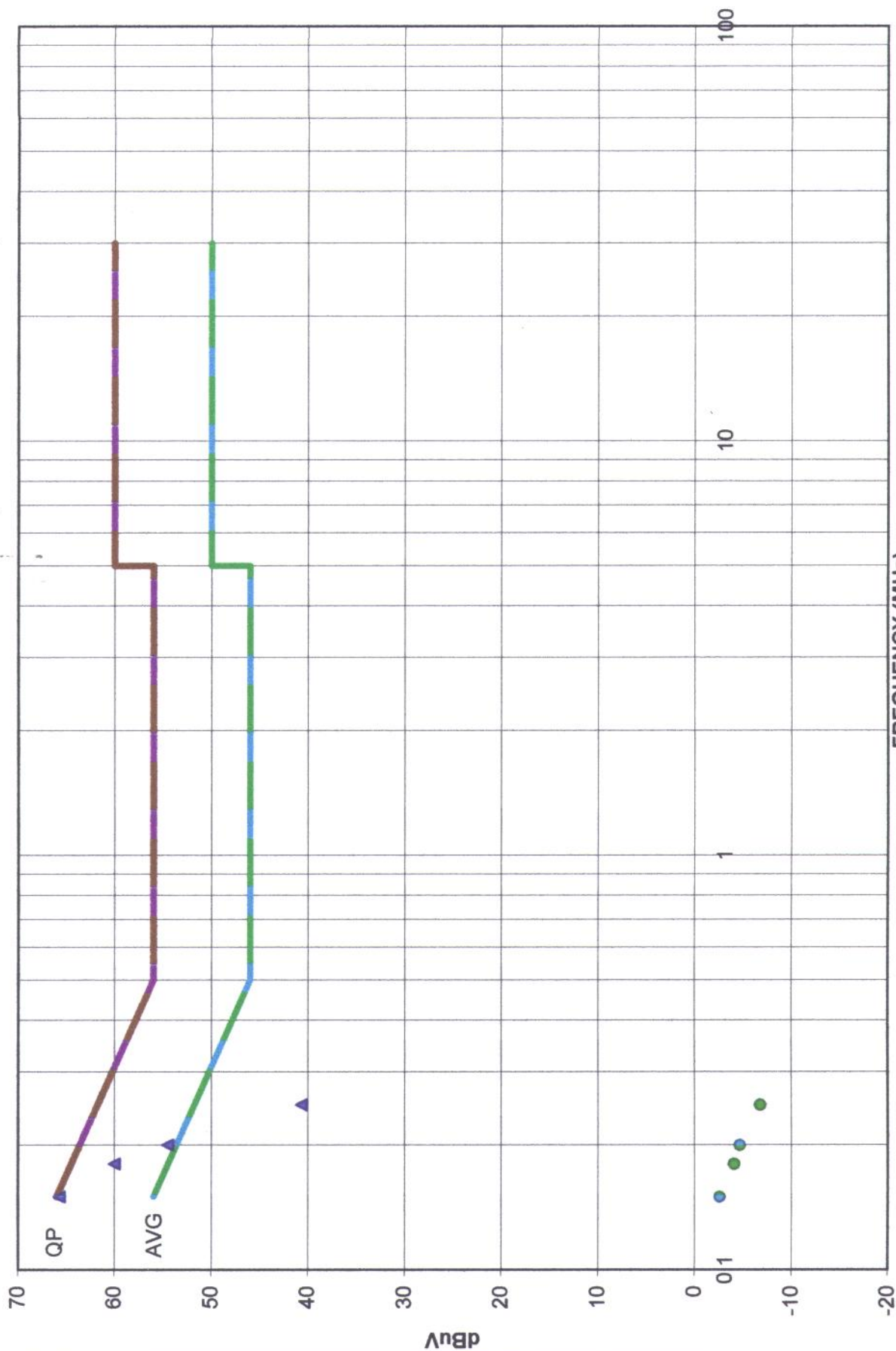


Figure 7

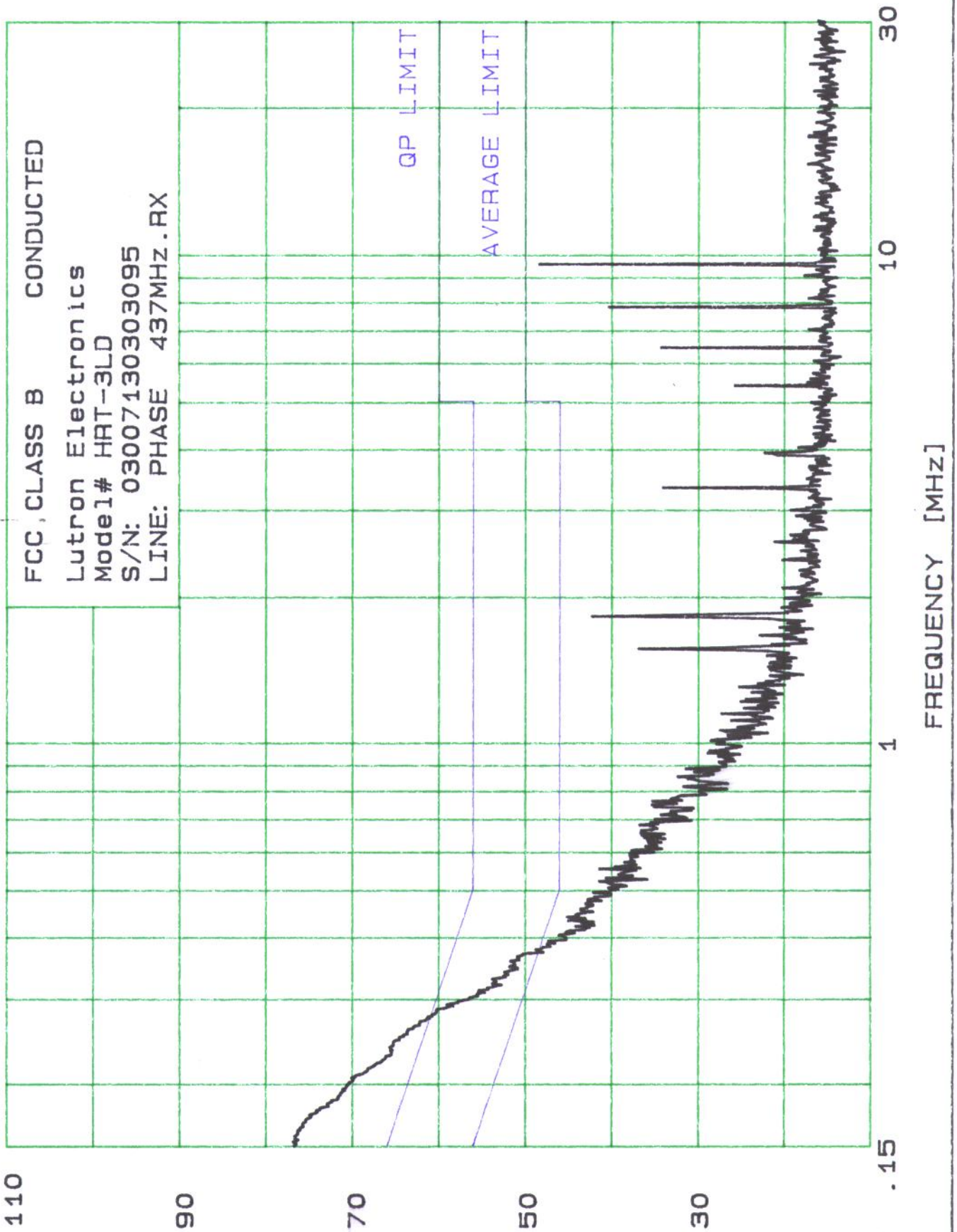


FIGURE 8

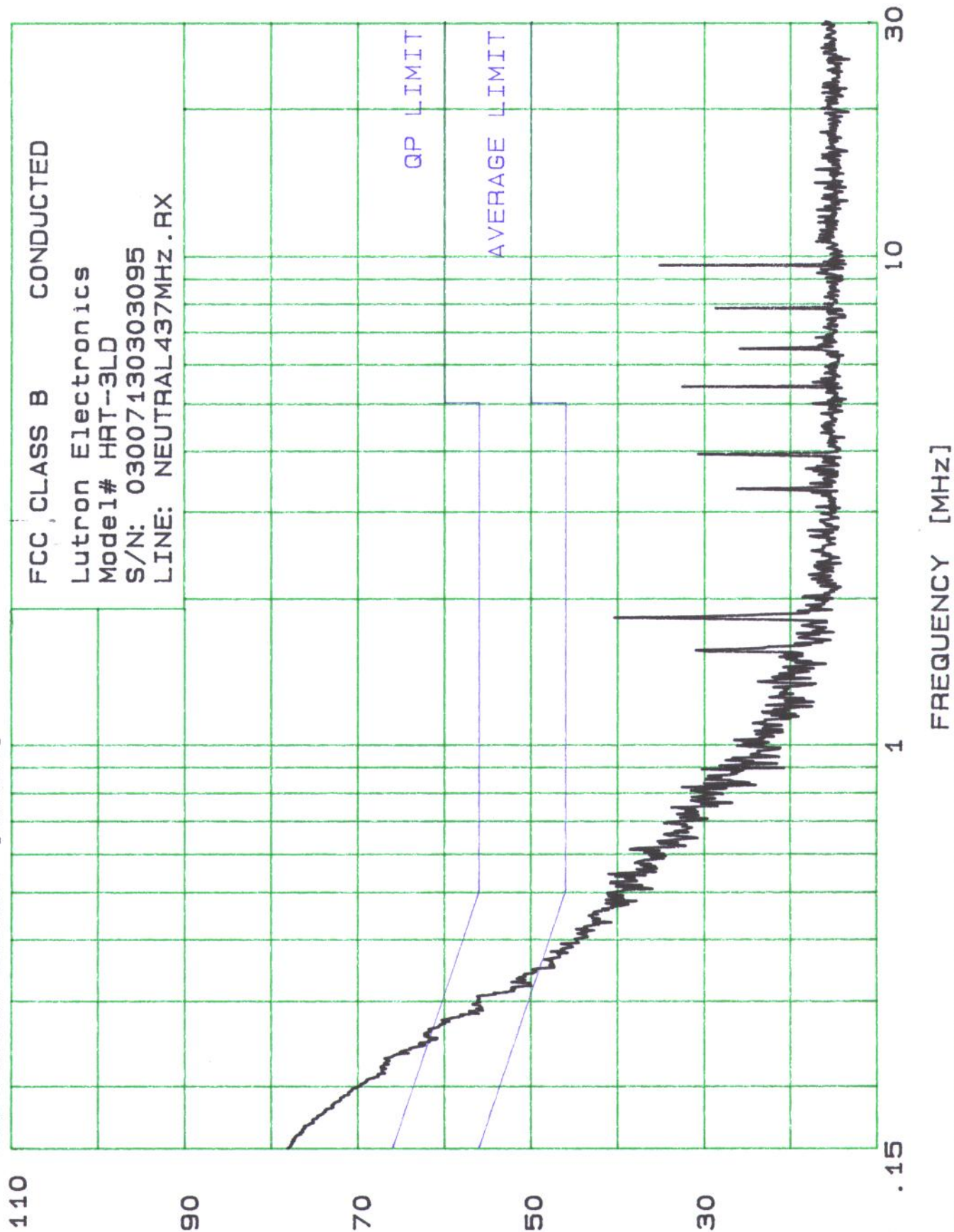


FIGURE 9

E
U
T[illegible]



FCC CONDUCTED EMISSIONS CLASS B (PHASE 437MHz. RX)

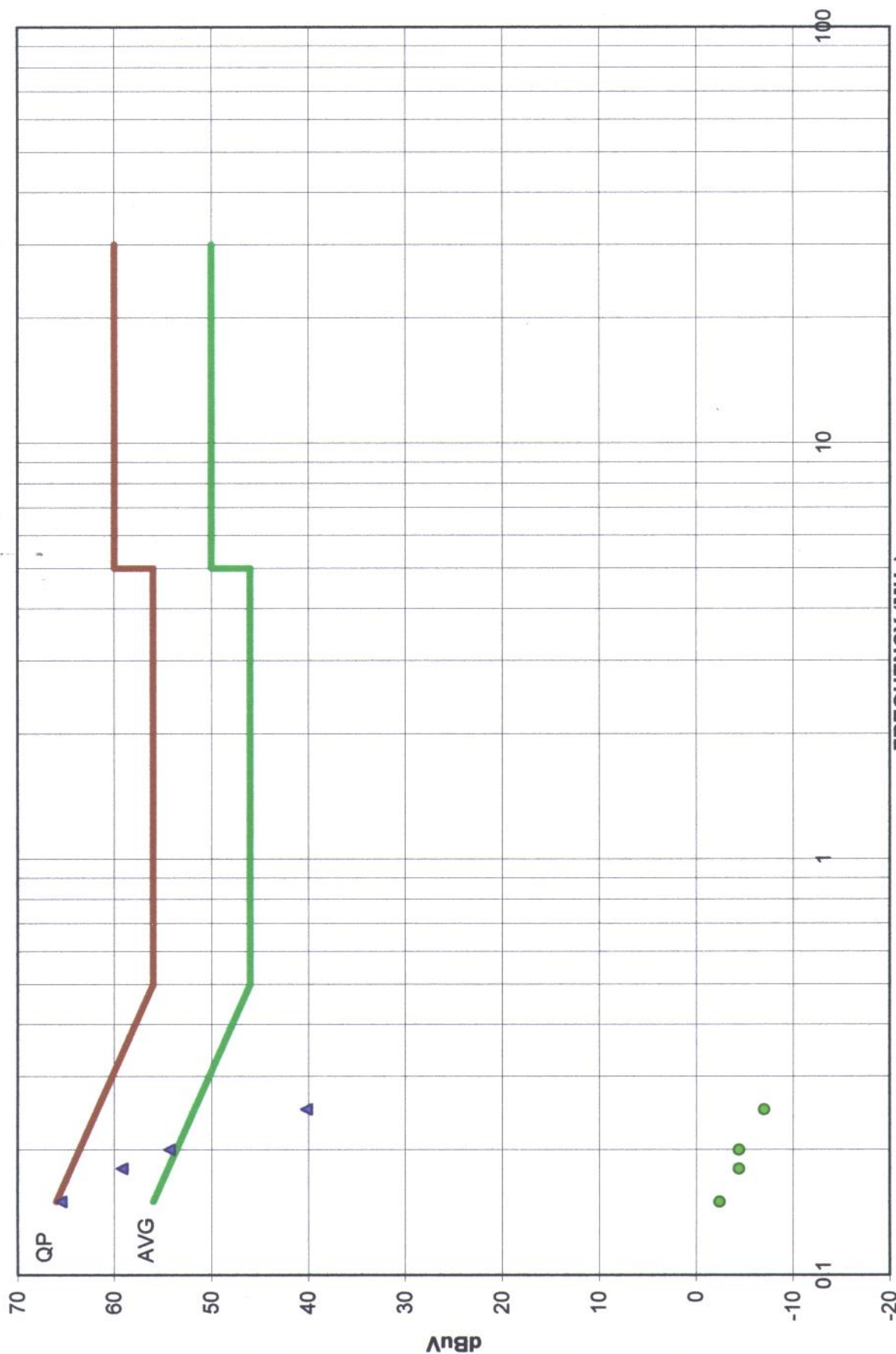


Figure 11



RADIATION SCIENCES INC.

FCC CONDUCTED EMISSIONS CLASS B (NEUTRAL 437MHz. RX)

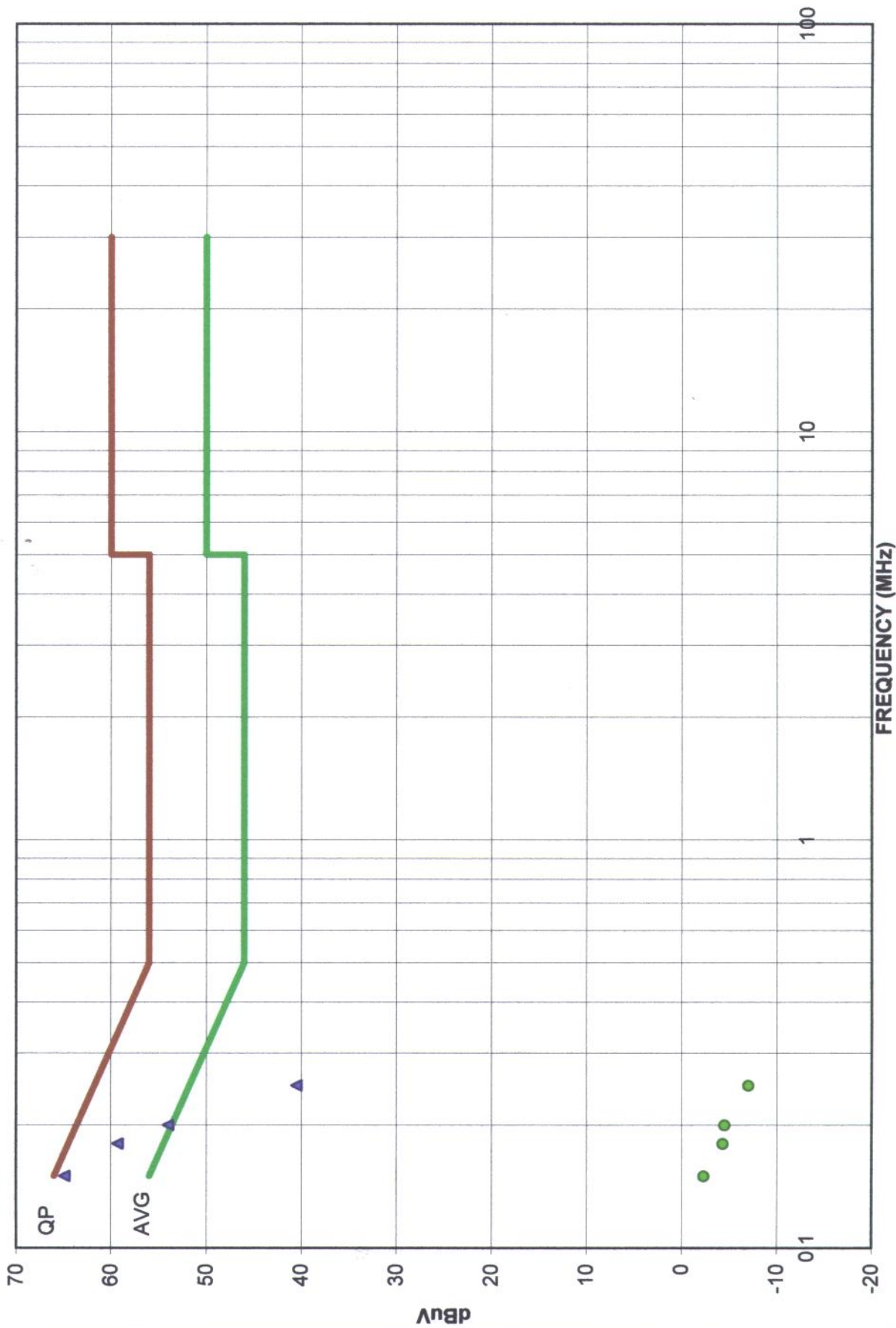


Figure 12

RADIATION SCIENCES INC.
EMISSION LEVEL [dBuV]

26 Apr 2006 11:55:06

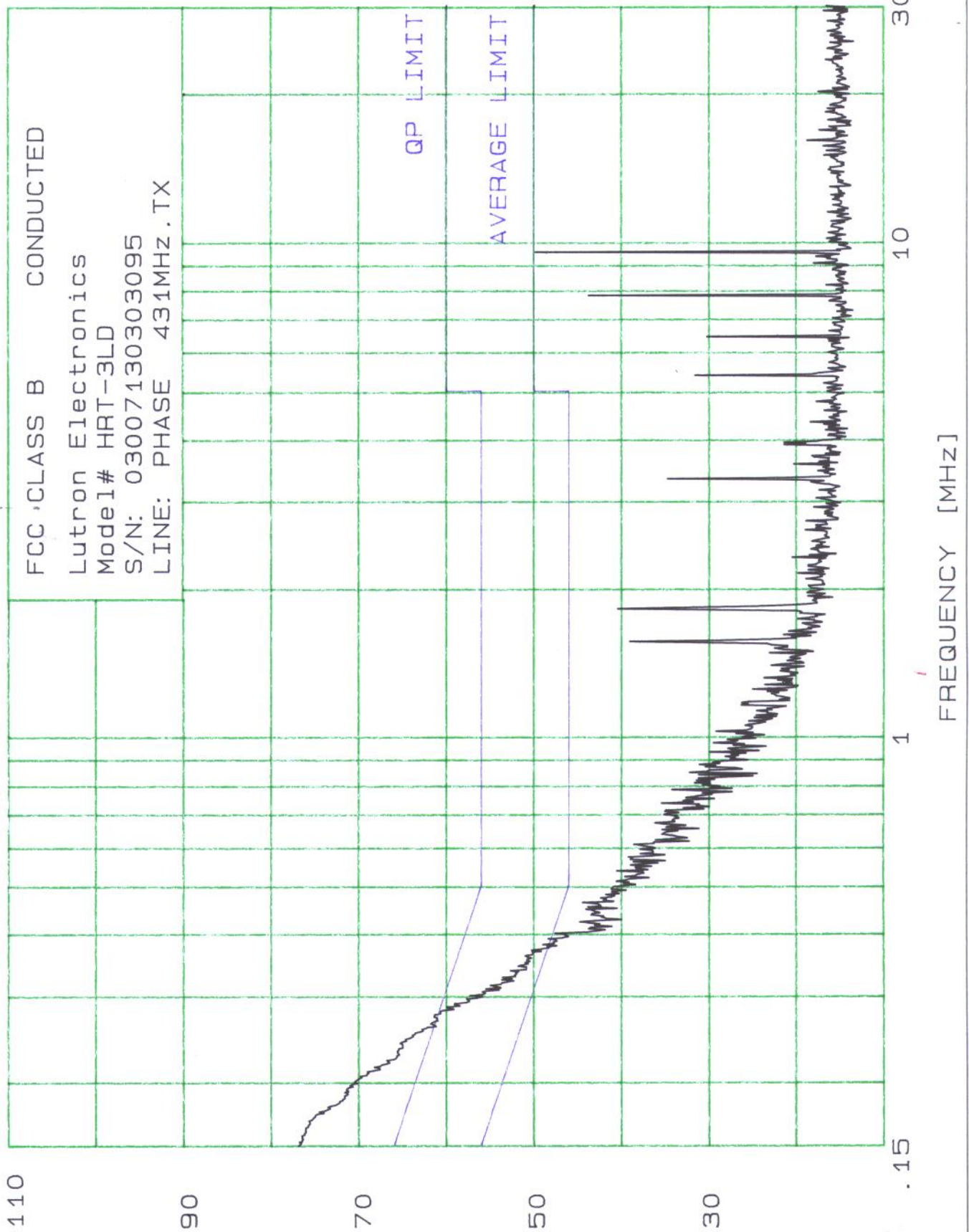


FIGURE 13

RADIATION SCIENCES INC.
EMISSION LEVEL [dBuV]

26 Apr 2006 12:28:00

110

90

70

50

30

.15

FCC CLASS B CONDUCTED

Lutron Electronics

Model# HRT-3LD

S/N: 03007130303095

LINE: NEUTRAL431MHZ.TX

QP LIMIT

AVERAGE LIMIT

FREQUENCY [MHz]

30

10

1

FIGURE 14

E
U
T[illegible]



RADIATION SCIENCES INC.

FCC CONDUCTED EMISSIONS CLASS B (PHASE 431MHz. TX)

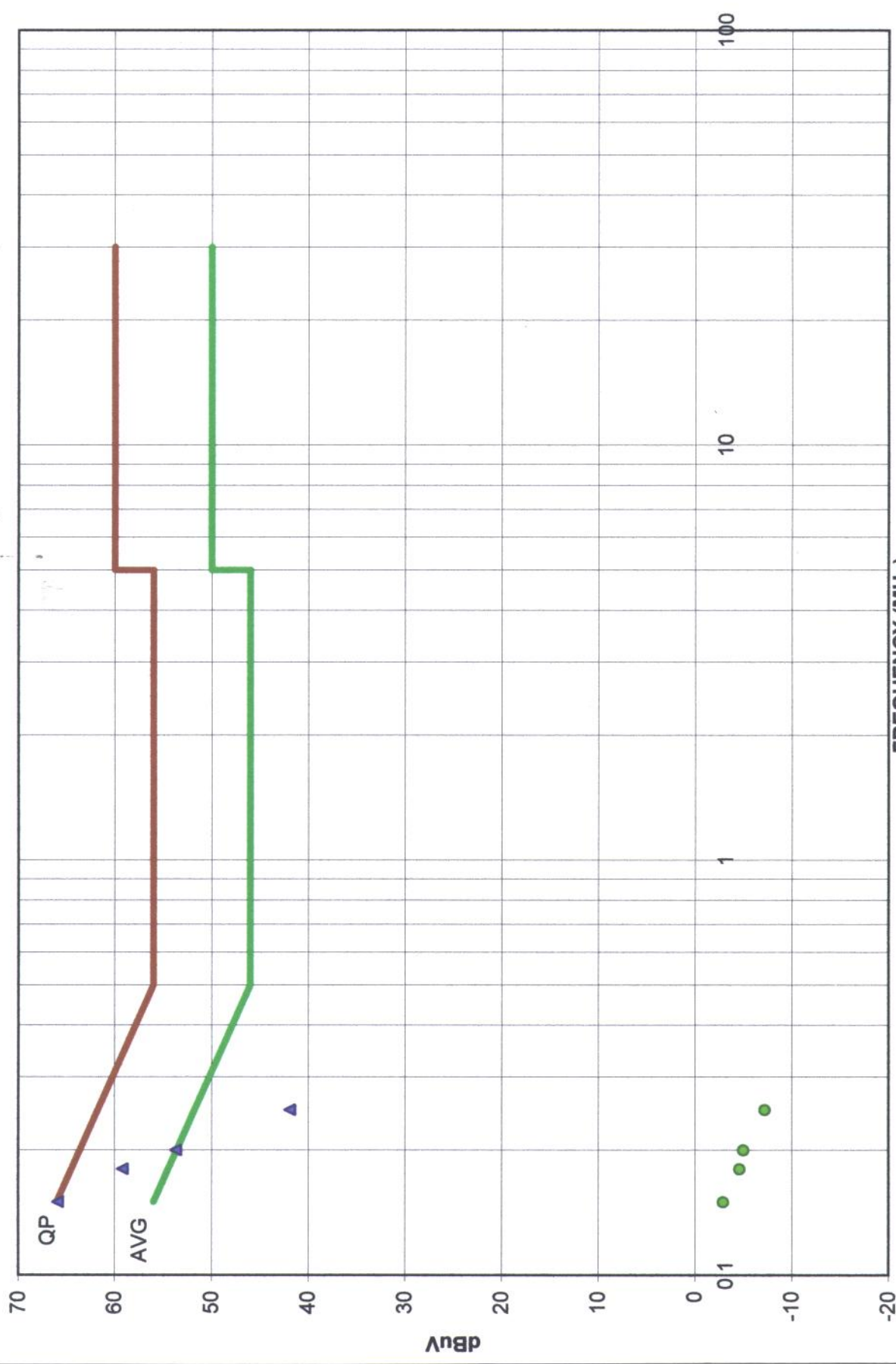


Figure 16



RADIATION SCIENCES INC.

FCC CONDUCTED EMISSIONS CLASS B (NEUTRAL 431MHz. TX)

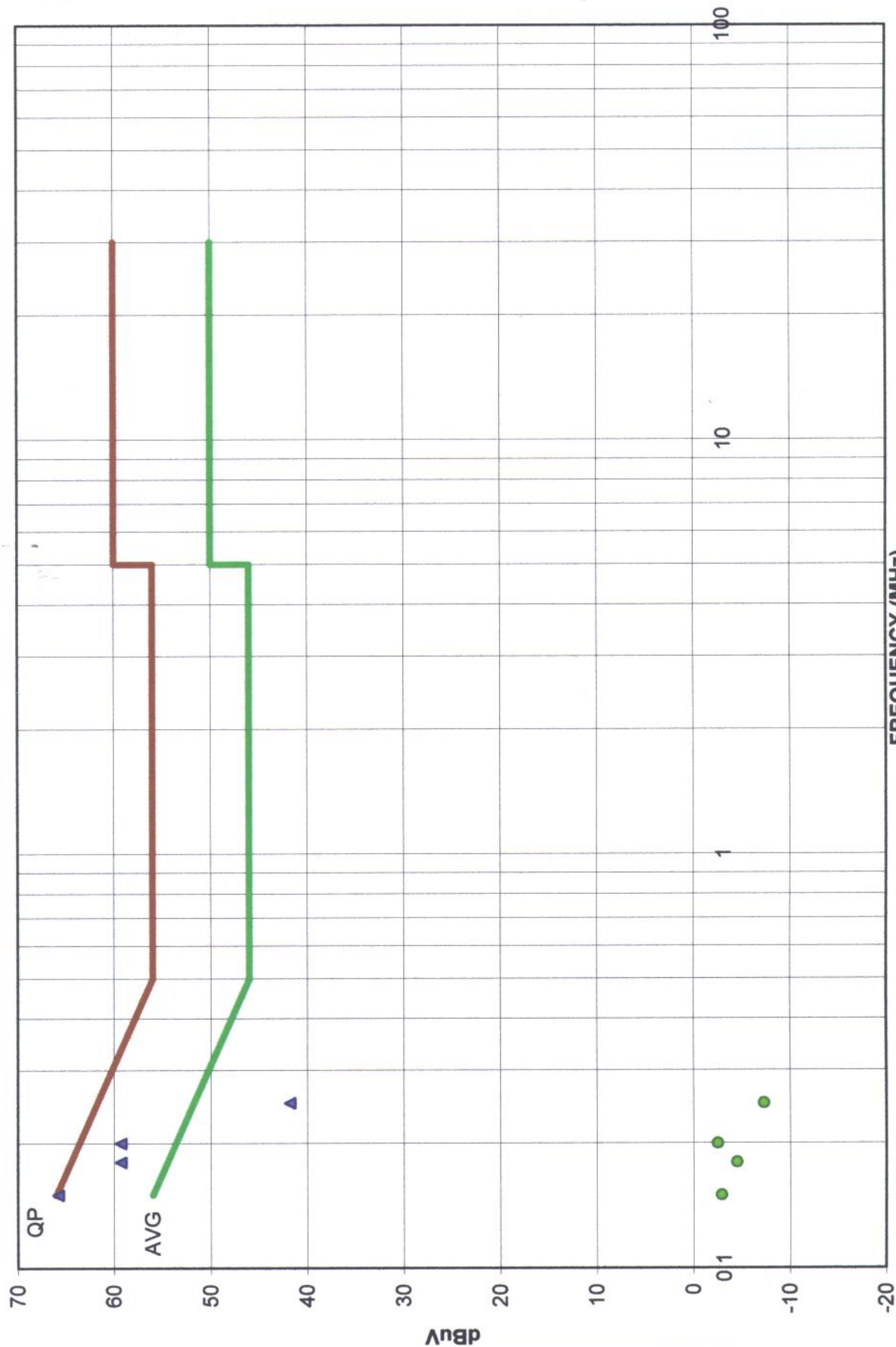


Figure 17

RADIATION SCIENCES INC.
EMISSION LEVEL [dBuV]

26 Apr 2006 10:11:22

110

90

70

50

30

.15

FCC CLASS B CONDUCTED

Lutron Electronics

Model# HRT-3LD

S/N: 03007130303095

LINE: PHASE 437MHZ.TX

QP LIMIT

AVERAGE LIMIT

FREQUENCY [MHz]

30

10

1

FIGURE 18

RADIATION SCIENCES INC.
EMISSION LEVEL [dBuV]

26 Apr 2006 10:21:56

110

90

70

50

30

.15

FCC CLASS B CONDUCTED

Lutron Electronics

Model# HRT-3LD

S/N: 03007130303095

LINE: NEUTRAL437MHz.TX

QP LIMIT

AVERAGE LIMIT

10

30

FREQUENCY [MHz]

FIGURE 19

E
U
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☐ NB

Figure 20



RADIATION SCIENCES INC.

FCC CONDUCTED EMISSIONS CLASS B (PHASE 437MHz. TX)

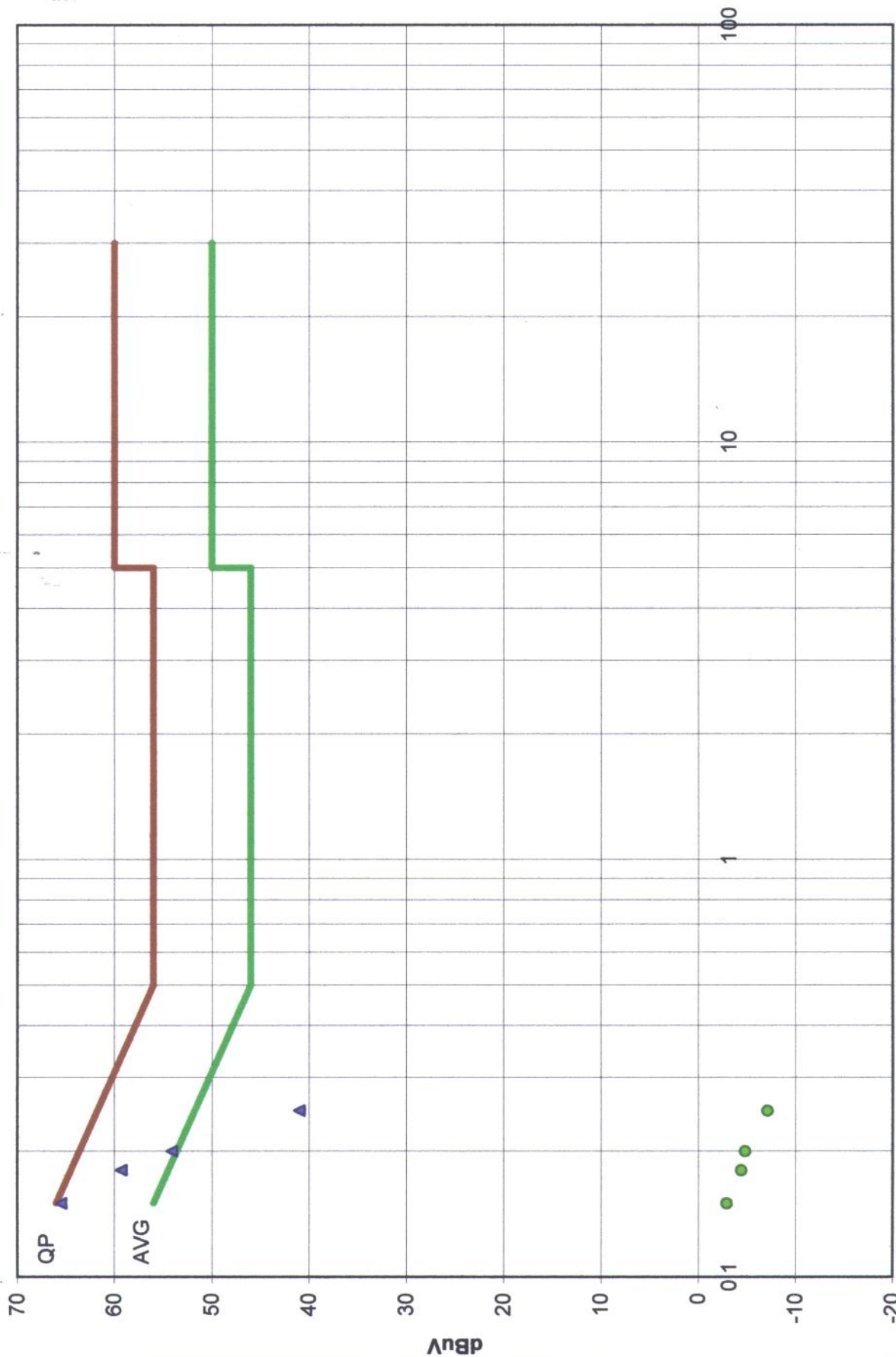
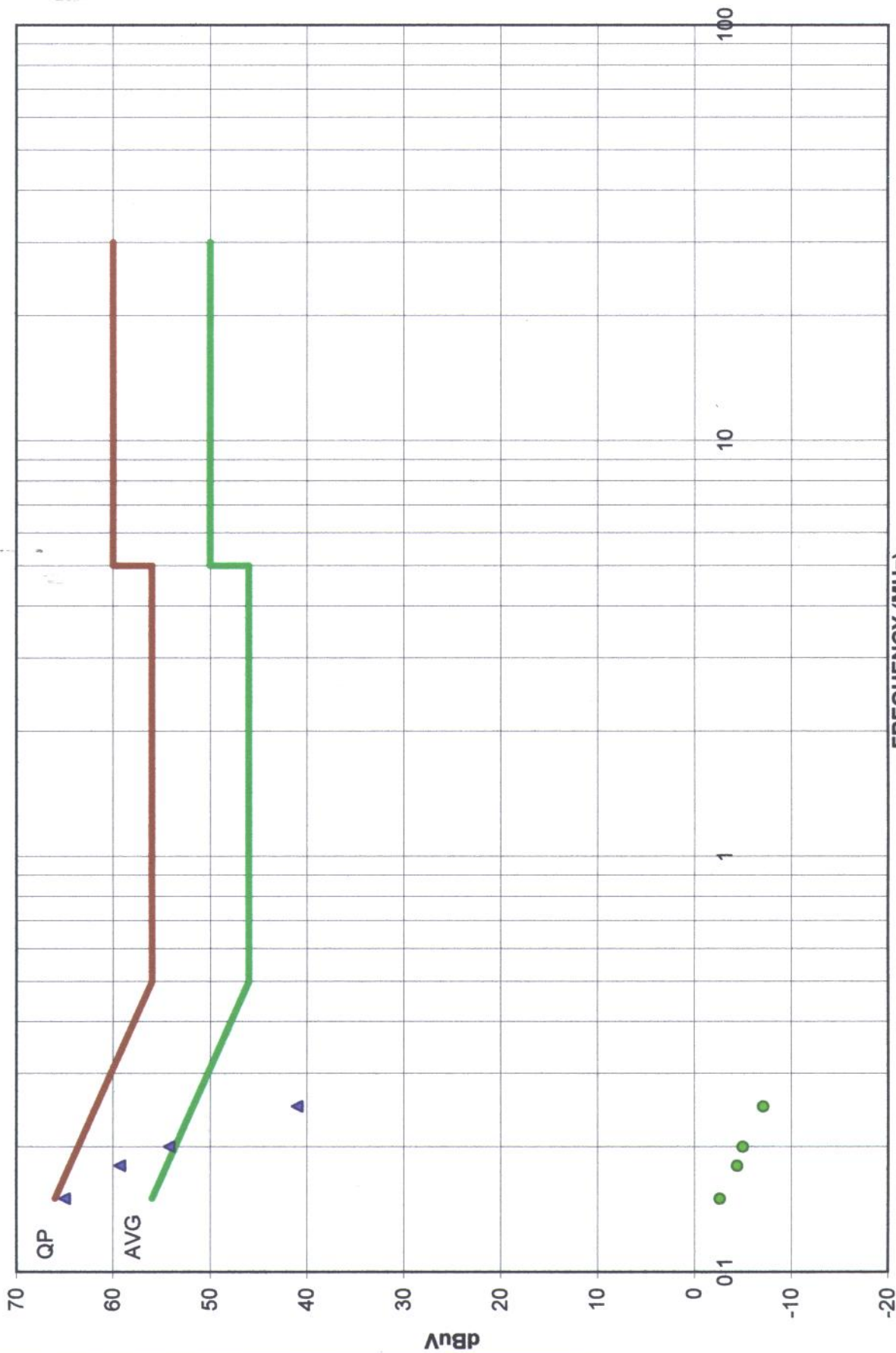


Figure 21



RADIATION SCIENCES INC.

FCC CONDUCTED EMISSIONS CLASS B (NEUTRAL 437MHz. TX)



FREQUENCY (MHz)

Figure 22



4.2 Radiated Emissions Measurements, §15.33, §15.35, §15.109, §15.205, §15.209, §15.231

Radiated Emissions measurements were recorded for the test sample at a distance of 3 meters. Radiated Emissions were measured with the antenna in both the horizontal and vertical polarizations. The antenna was raised 1 to 4 meters in height and the Equipment Under Test (EUT) was rotated 360° to maximize the emission. No significant emission level changes occurred while positioning the EUT power cable.

For intentional radiators the field strength of emissions of the EUT was measured out to the tenth harmonic of the carrier frequency. The carrier frequency was set to 431 and 437MHz.

An average factor of 20dB was applied to the level of the fundamental emission when compared to the FCC limit. The EUT duty cycle information supporting the -20dB factor is shown in Figure 23.

Figure 24 is a test setup diagram for Radiated Emissions and Figure 25 are the photographs of the test setup.

The test results for Radiated Emissions testing are shown in the following figures:

- Figure 26 Unintentional Radiated Emissions, data sheet, 431MHz Receive Mode
- Figure 27 Unintentional Radiated Emissions, graph, 431MHz Receive Mode
- Figure 28 Unintentional Radiated Emissions, data sheet, 437MHz Receive Mode
- Figure 29 Unintentional Radiated Emissions, graph, 437MHz Receive Mode
- Figure 30 Unintentional Radiated Emissions, data sheet, 431MHz CW Transmit Mode, Vert.
- Figure 31 Unintentional Radiated Emissions, data sheet, 431MHz CW Transmit Mode, Horiz.
- Figure 32 Unintentional Radiated Emissions, data sheet, 437MHz CW Transmit Mode, Vert.
- Figure 33 Unintentional Radiated Emissions, data sheet, 437MHz CW Transmit Mode, Horiz.

- Figure 34 Intentional Radiated Emissions, data sheet, 431MHz CW Transmit Mode
- Figure 35 Intentional Radiated Emissions, data sheet, 437MHz CW Transmit Mode

ALL LEVELS COMPLY WITH THE APPLICABLE FCC LIMITS FOR RADIATED EMISSIONS PER THE APPLICABLE PARAGRAPHS.