Model: BT2022 FCC ID: HSW-BT2022M

6.6 Spurious Emissions - FCC Section 15.247(c)

6.6.1 RF Conducted Spurious Emissions

The EUT was investigated for conducted spurious emissions from 30MHz to 25GHz, 10 times the highest fundamental frequency. For each measurement, the spectrum analyzer's VBW was set to 100kHz and the RBW was set to 1MHz.

6.6.1.2 Test Results

Result: All emission found were greater than 20dB down from the fundamental carrier. The RF conducted spurious emissions found in the band of 30MHz to 25GHz are reported in Table 6.6.1.2 below. Plots were taken also and are filed separately with this filing in a file titled "03-0193 Data Plots A.doc". Each emission was compared to the fundamental reference level to determine if they were at least 20dB below the reference level.

Table 6.6.1.2: RF Conducted Spurious Emissions

Frequency (MHz)	Level (dBm)	Peak Power (dBm)	Limit (dBm)	Margin (dB)	Final Result (Pass/Fail)
High Channel:					
1012.8	-53.85	15.31	-4.69	-49.16	Pass
4960.3	-32.34			-27.65	Pass
9922.2	-43.39			-38.7	Pass
12400	-57.63			-52.94	Pass
15000	-76.27			-71.58	Pass
20000	-79.17			-74.48	Pass
Mid Channel:					
952.1	-60.68	15.59	-4.41	-56.27	Pass
4882.2	-31.02			-26.61	Pass
9766.6	-49.13			-44.72	Pass
12205.5	-59.36			-54.95	Pass
15000	-76.12			-71.71	Pass
20000	-80.67			-76.26	Pass
Low Channel:					
895.8	-55.02	15.43	-4.57	-50.45	Pass
4805.6	-32.04			-27.47	Pass
9611.1	-56.54			-51.97	Pass
12011.1	-64.82			-60.25	Pass
15000	-76.81			-72.24	Pass
20000	-78.53			-73.96	Pass

6.6.2 Radiated Spurious Emissions (Restricted Bands) - FCC Section 15.205

Radiated emissions tests were made over the frequency range of 30MHz to 25GHz, 10 times the highest fundamental frequency on each antenna given in section 1.2.3.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000MHz, quasi-peak measurements were made using a resolution bandwidth (RBW) of 120 kHz and a video bandwidth (VBW) of 300 kHz. For frequencies above 1000MHz, average measurements were made using an RBW of 1MHz and a VBW of 10Hz and peak measurements were made with RBW of 1MHz and a VBW of 1MHz.

The EUT was caused to generate a carrier signal on the hopping channel.

Data Plots

ACS Report Number: 03-0193-15B

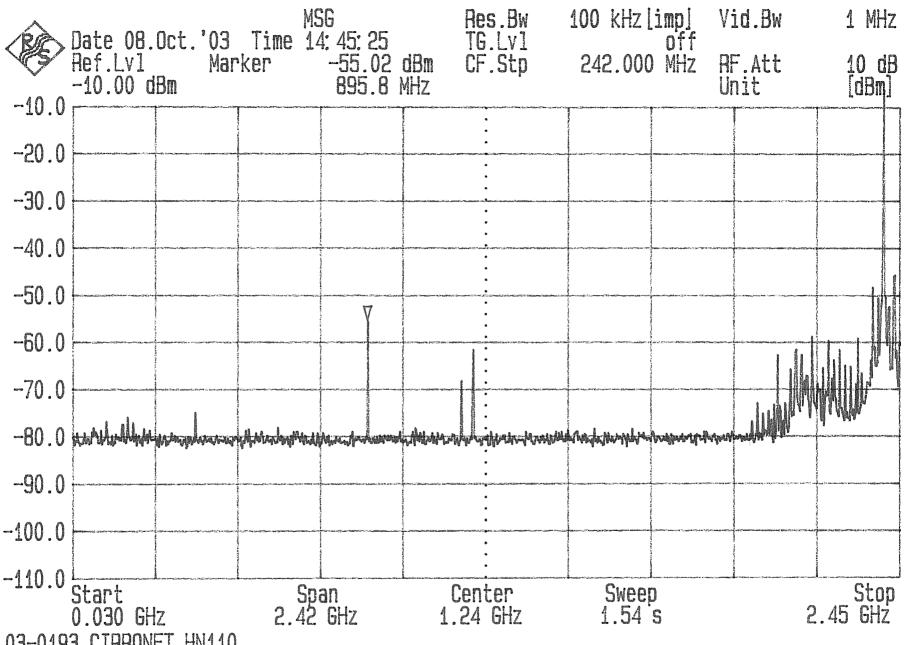
Manufacturer: Cirronet, Inc. Model: BT2022

Test: Conducted Spurious Emissions

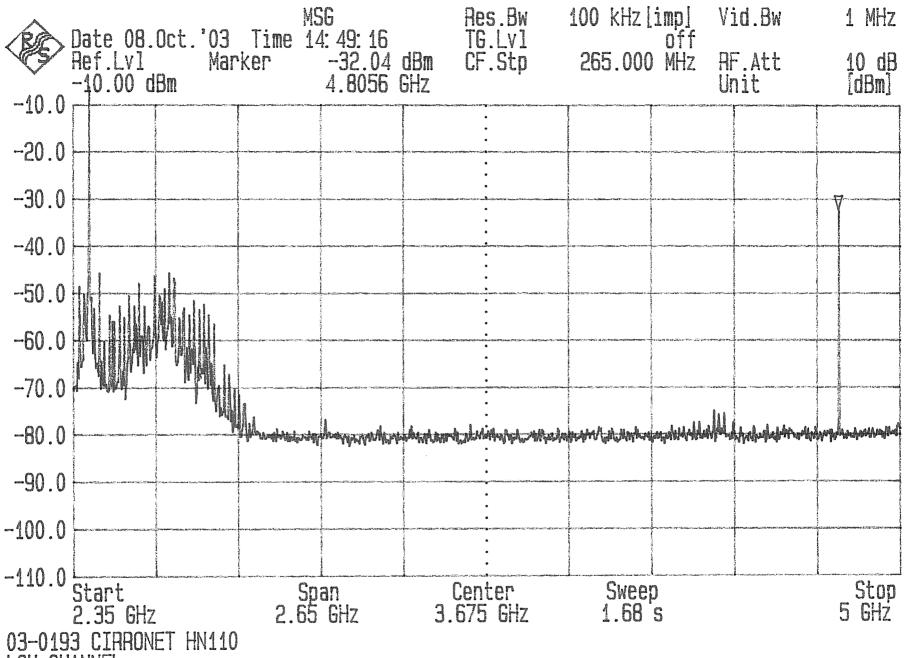
Channel: Low

Model: BT2022

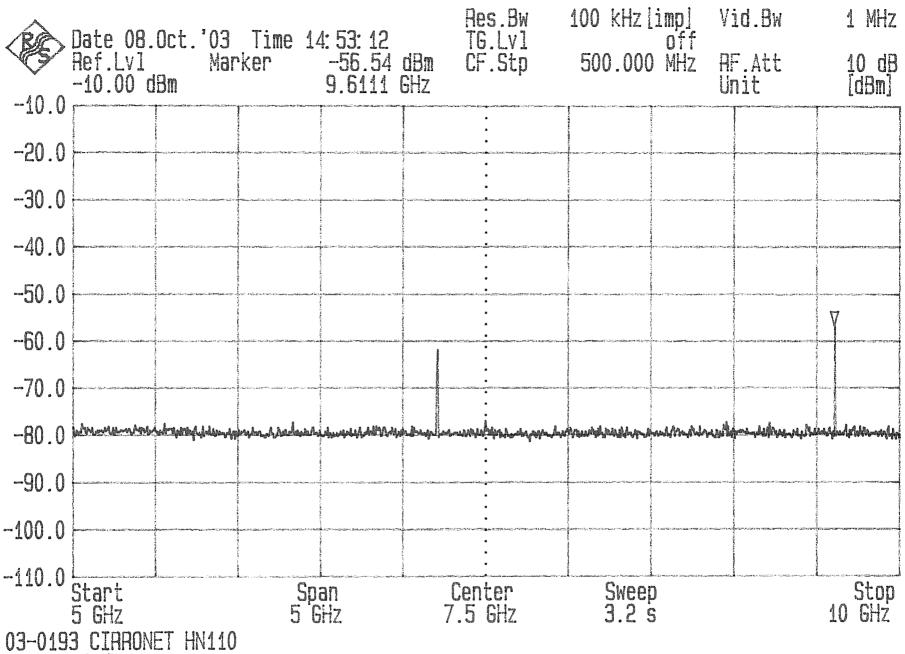
FCC ID: HSW-BT2022



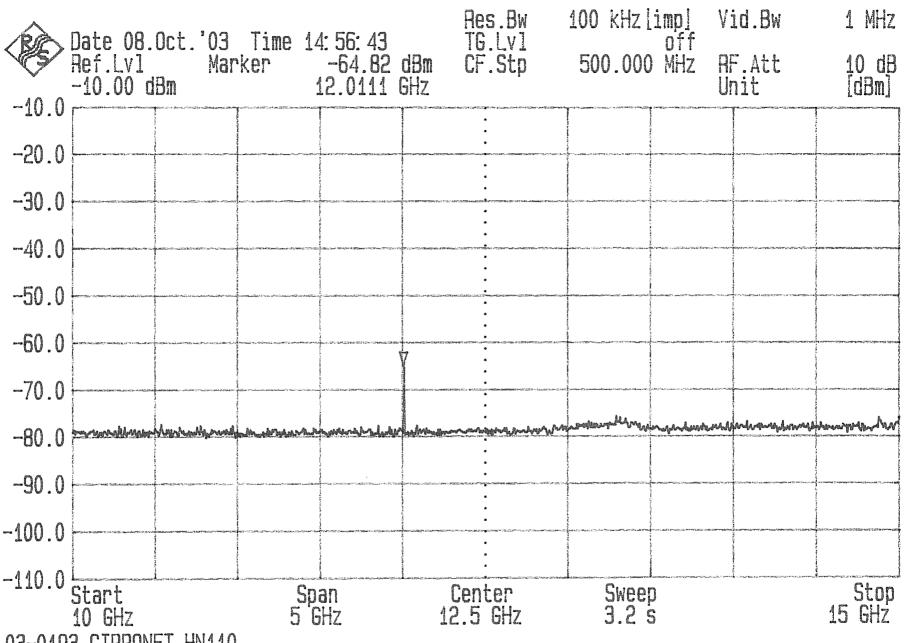
03-0193 CIARONET HN110 LOW CHANNEL



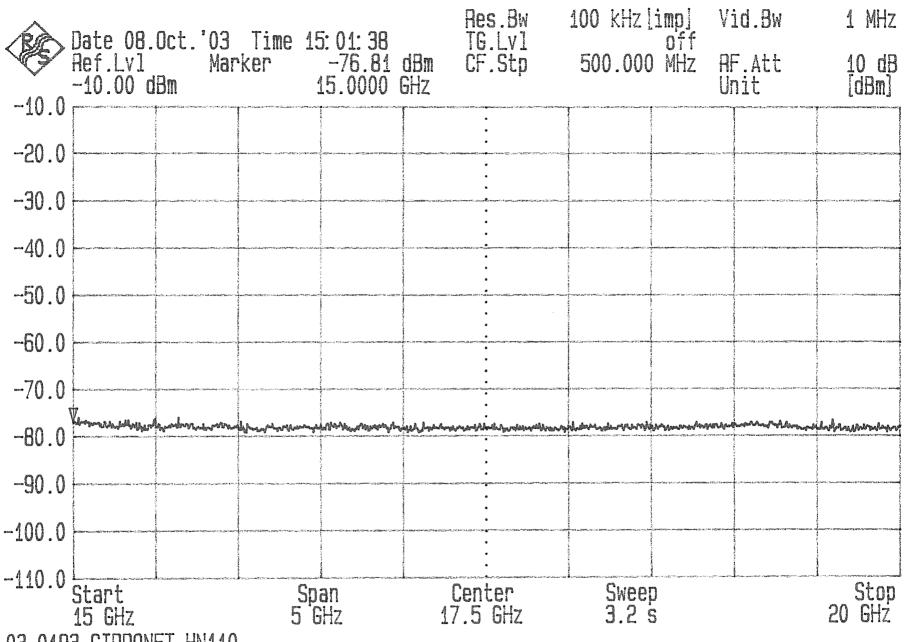
LOW CHANNEL



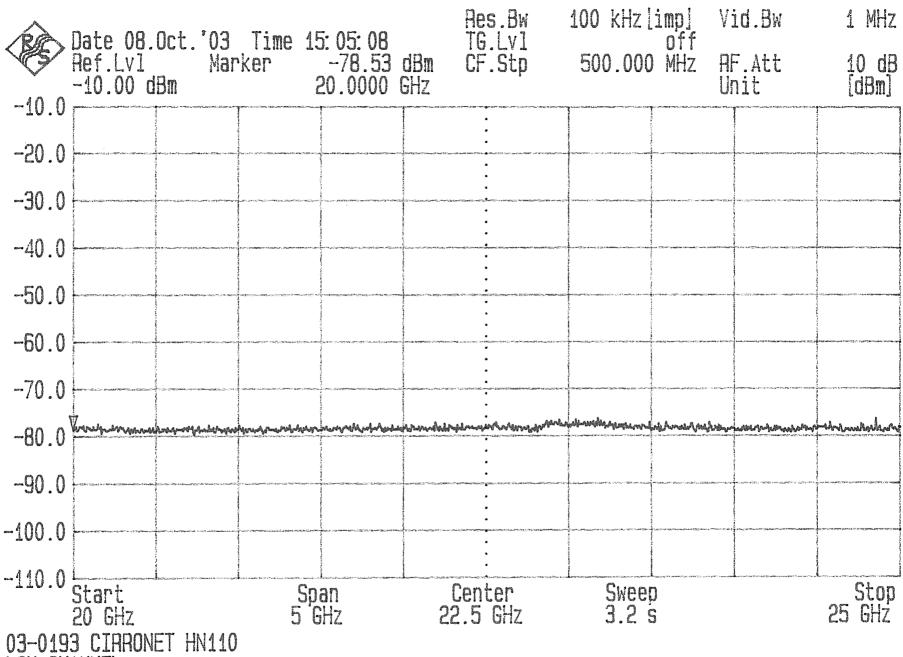
LOW CHANNEL



03-0193 CIRRONET HN110 LOW CHANNEL



03-0193 CIRRONET HN110 LOW CHANNEL



LOW CHANNEL

Model: BT2022

Data Plots

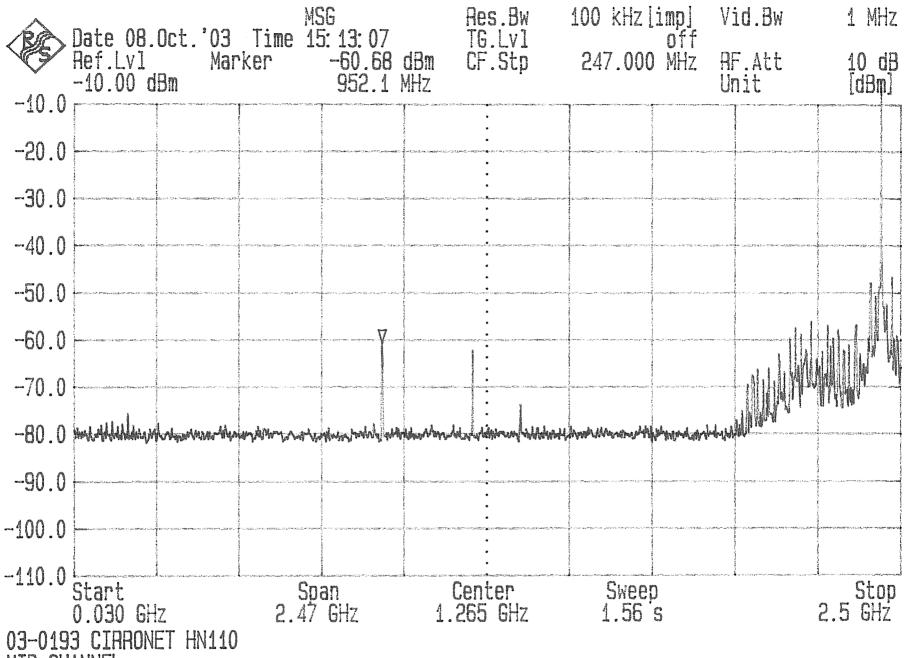
ACS Report Number: 03-0193-15B

Manufacturer: Cirronet, Inc. Model: BT2022

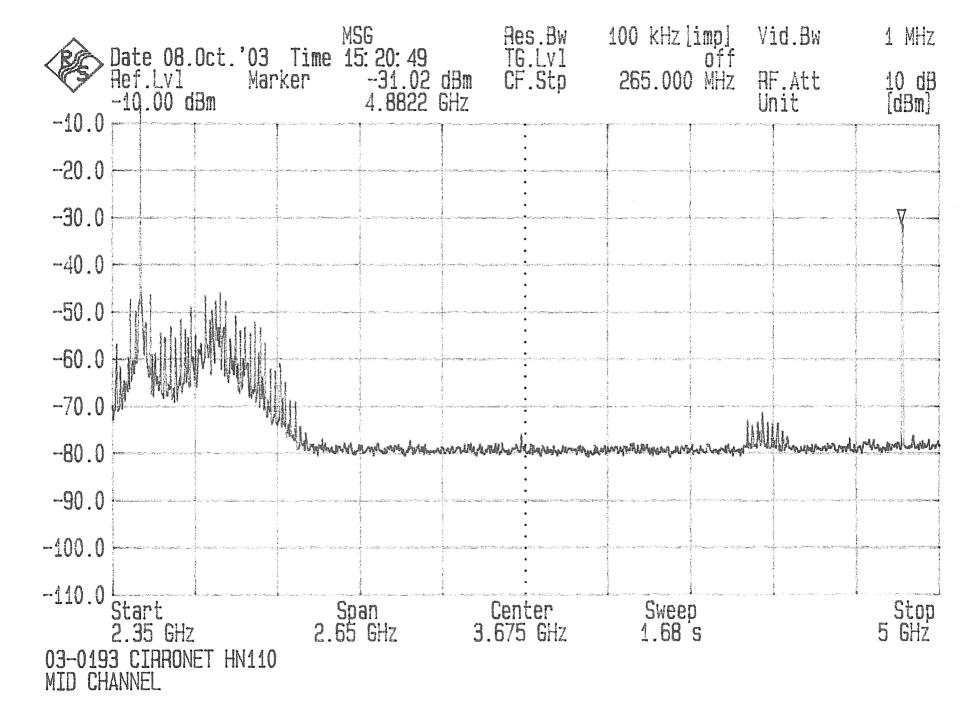
Test: Conducted Spurious Emissions

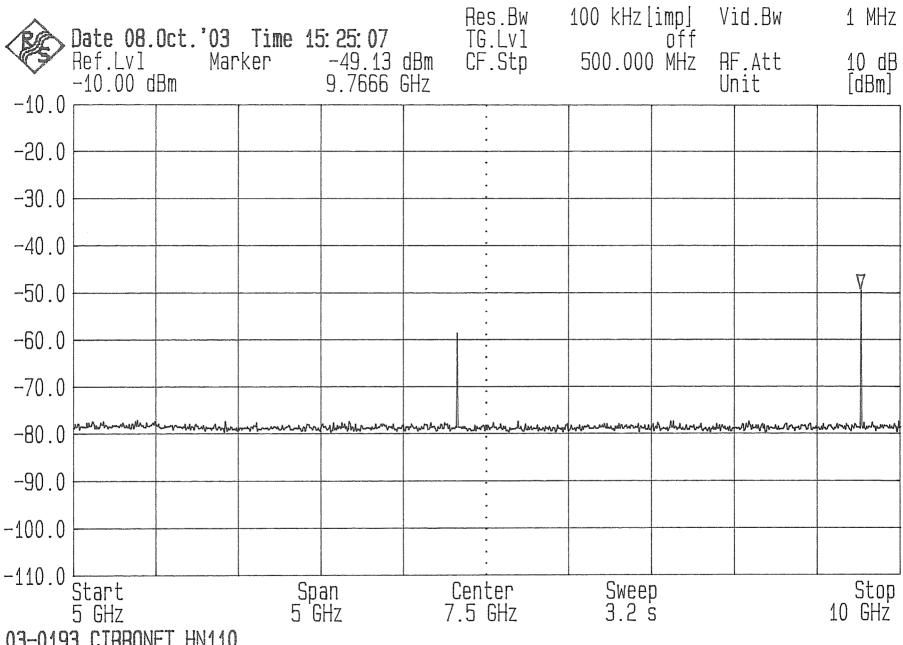
Channel: Center

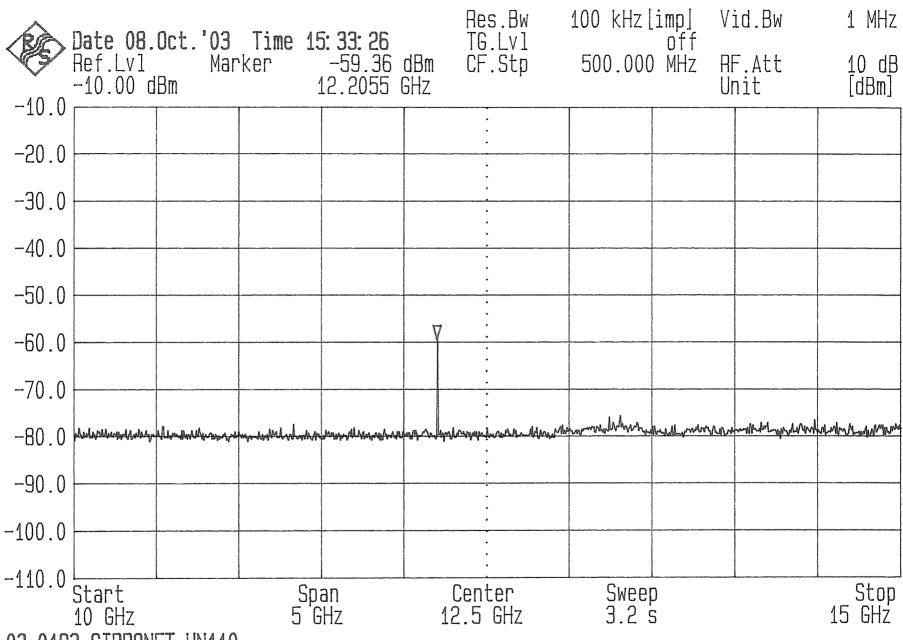
FCC ID: HSW-BT2022

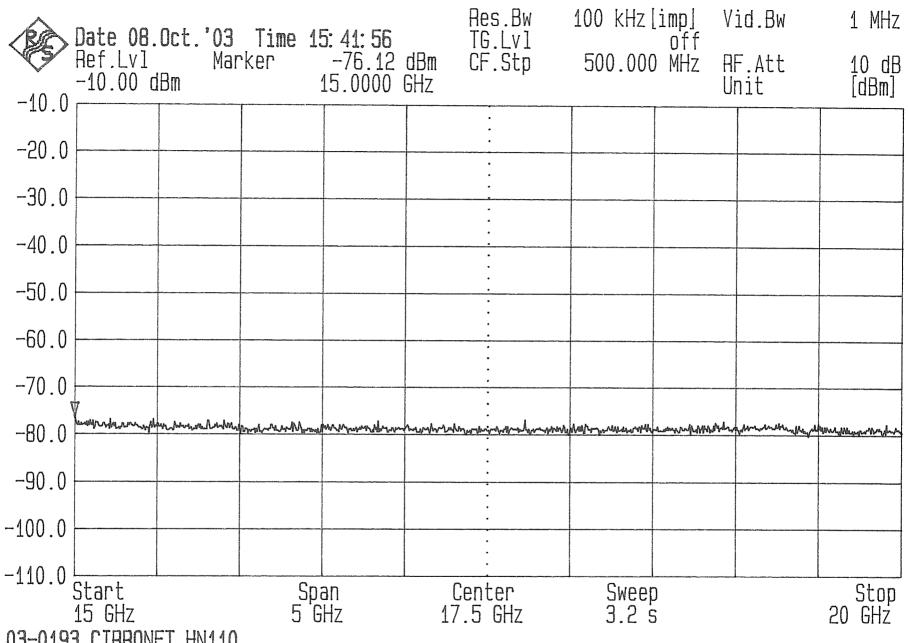


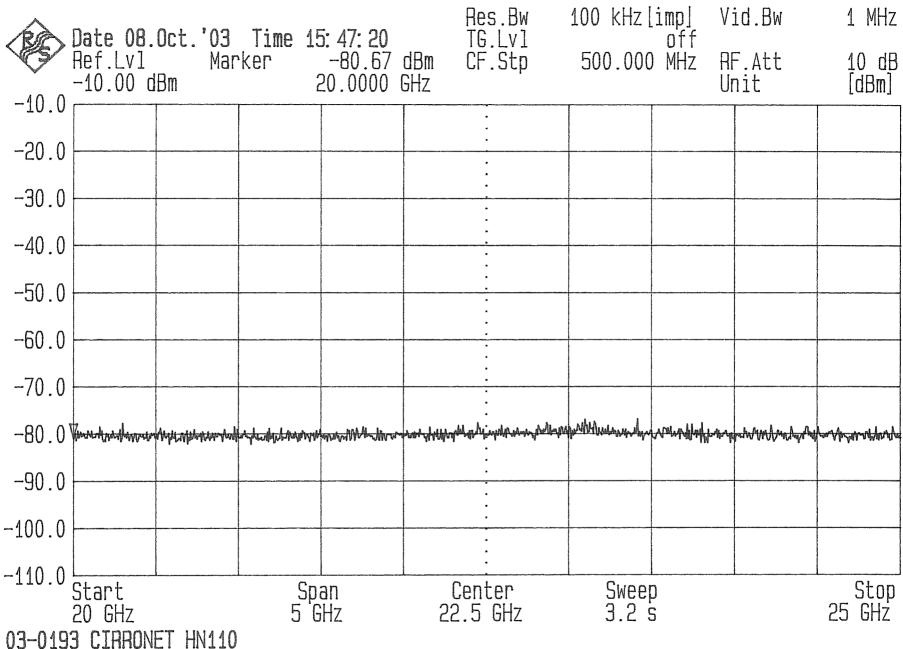
MID CHANNEL











Model: BT2022

Data Plots

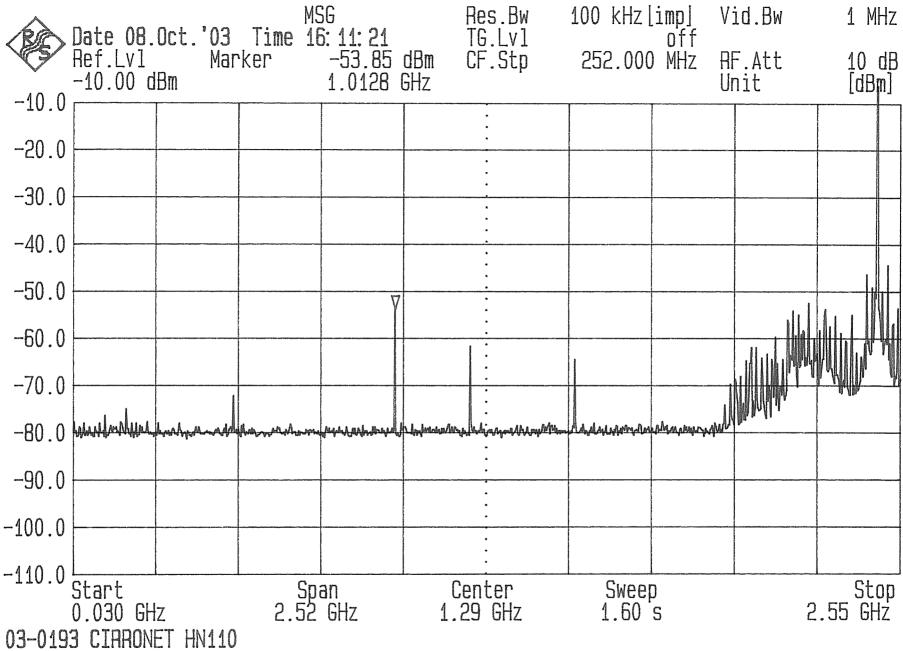
ACS Report Number: 03-0193-15B

Manufacturer: Cirronet, Inc. Model: BT2022

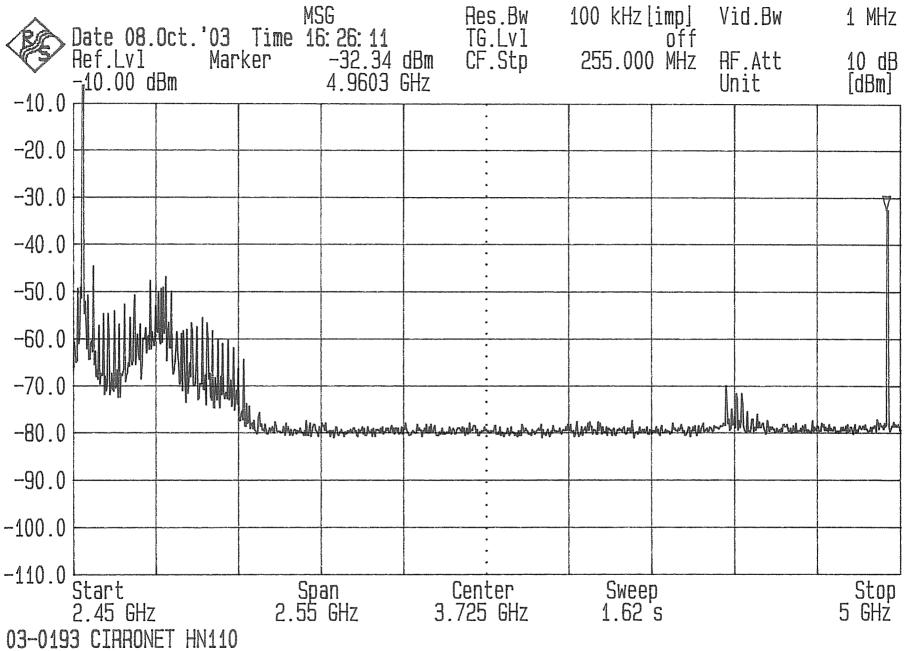
Test: Conducted Spurious Emissions

Channel: High

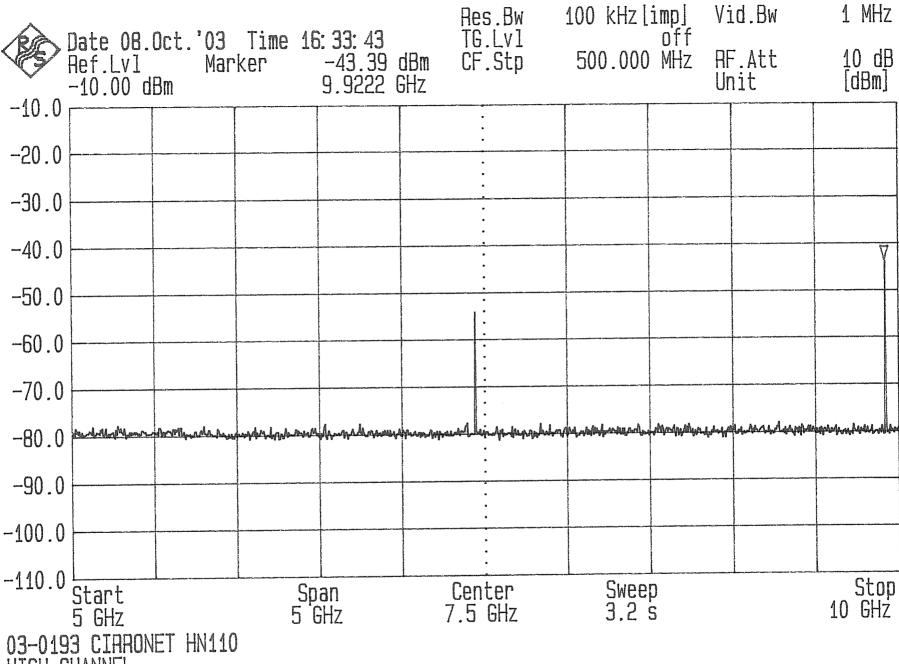
FCC ID: HSW-BT2022



HIGH CHANNEL



03-0193 CIHHONE! HN110 HIGH CHANNEL



HIGH CHANNEL

