

Figure 61. Conducted Spurious Emissions, Mid Channel 2.395- 2.488GHz (in STB2078 Host)

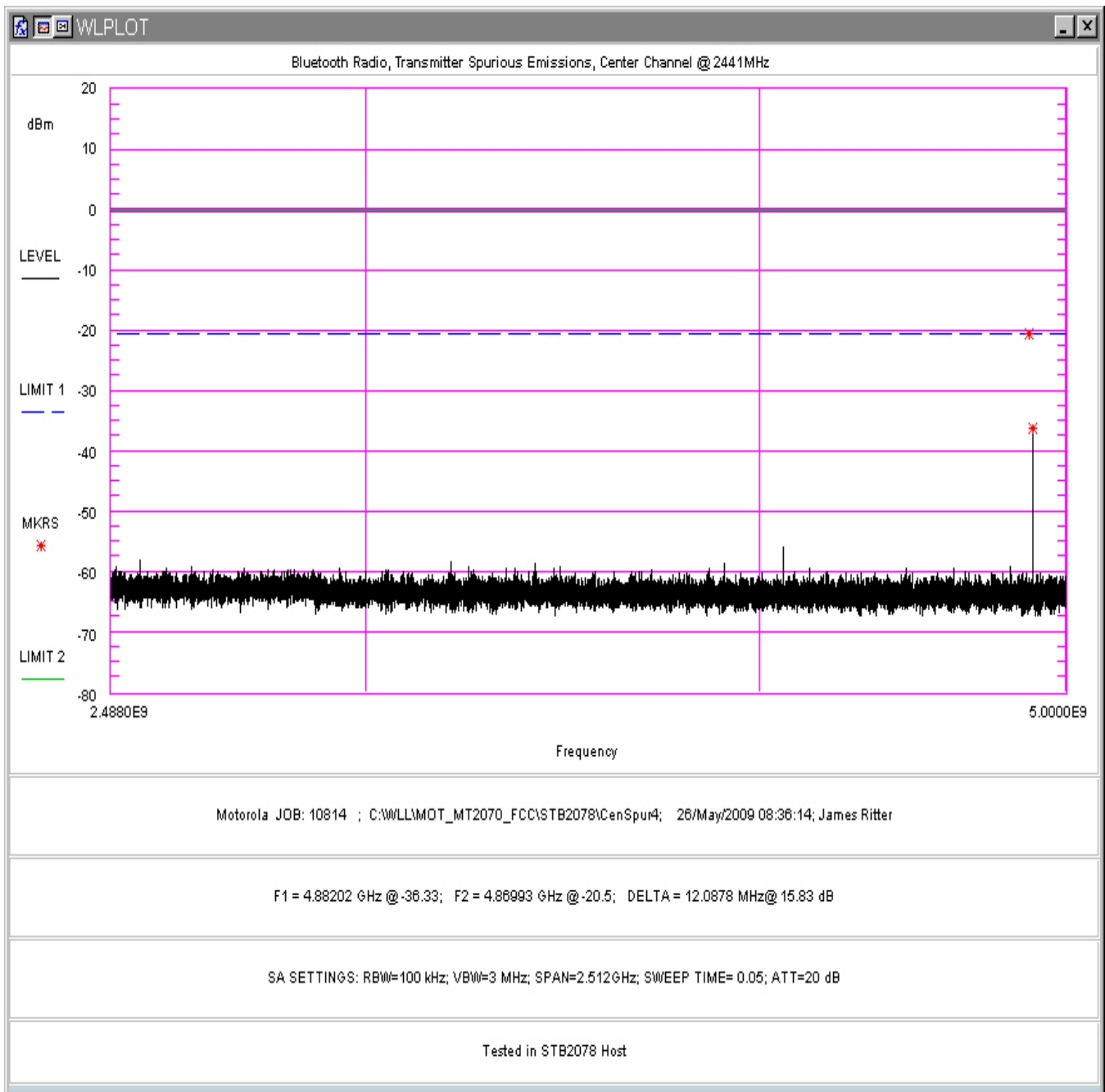


Figure 62. Conducted Spurious Emissions, Mid Channel 2.488 – 5 GHz (in STB2078 Host)

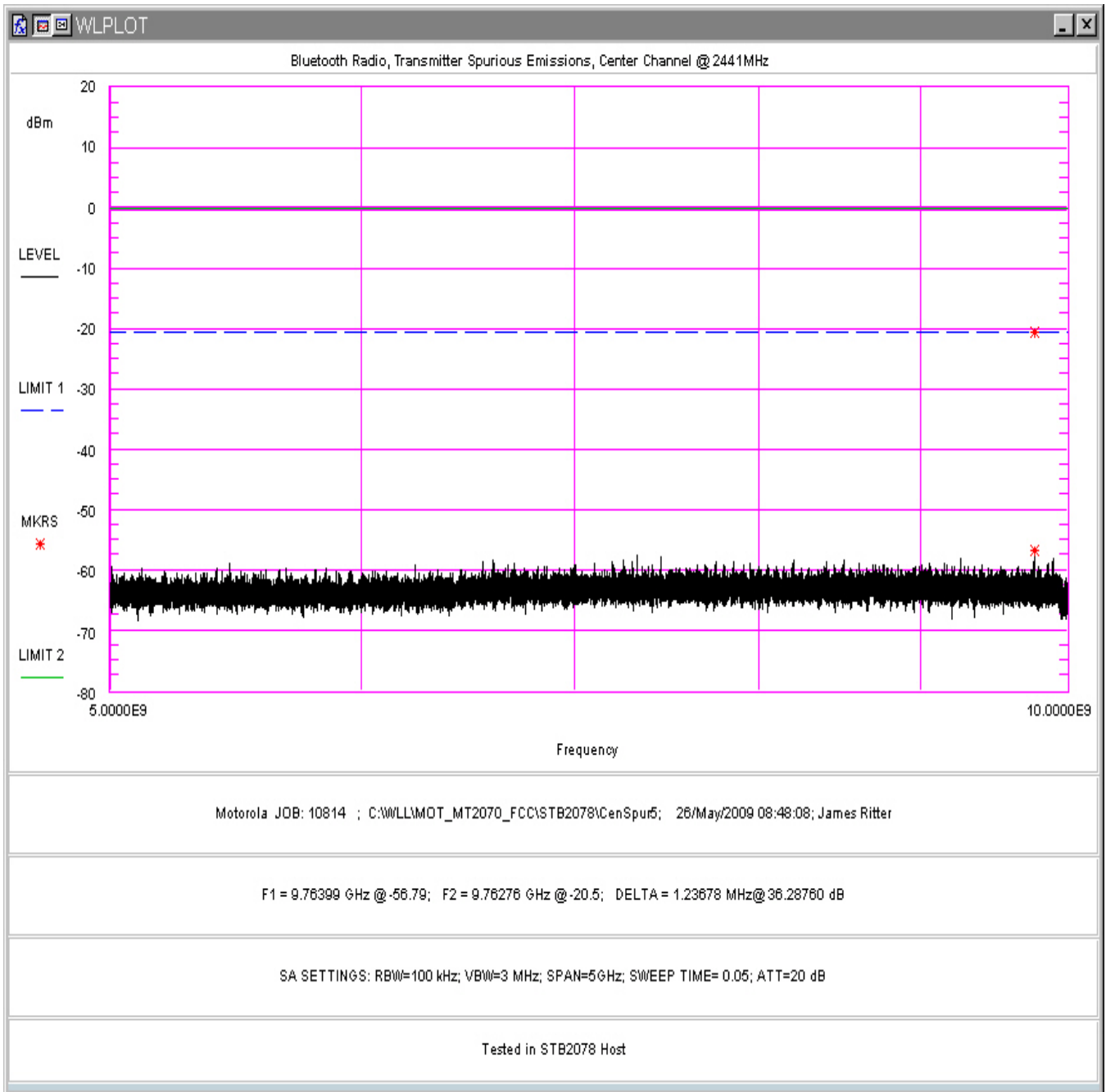


Figure 63. Conducted Spurious Emissions, Mid Channel 5-10GHz (in STB2078 Host)

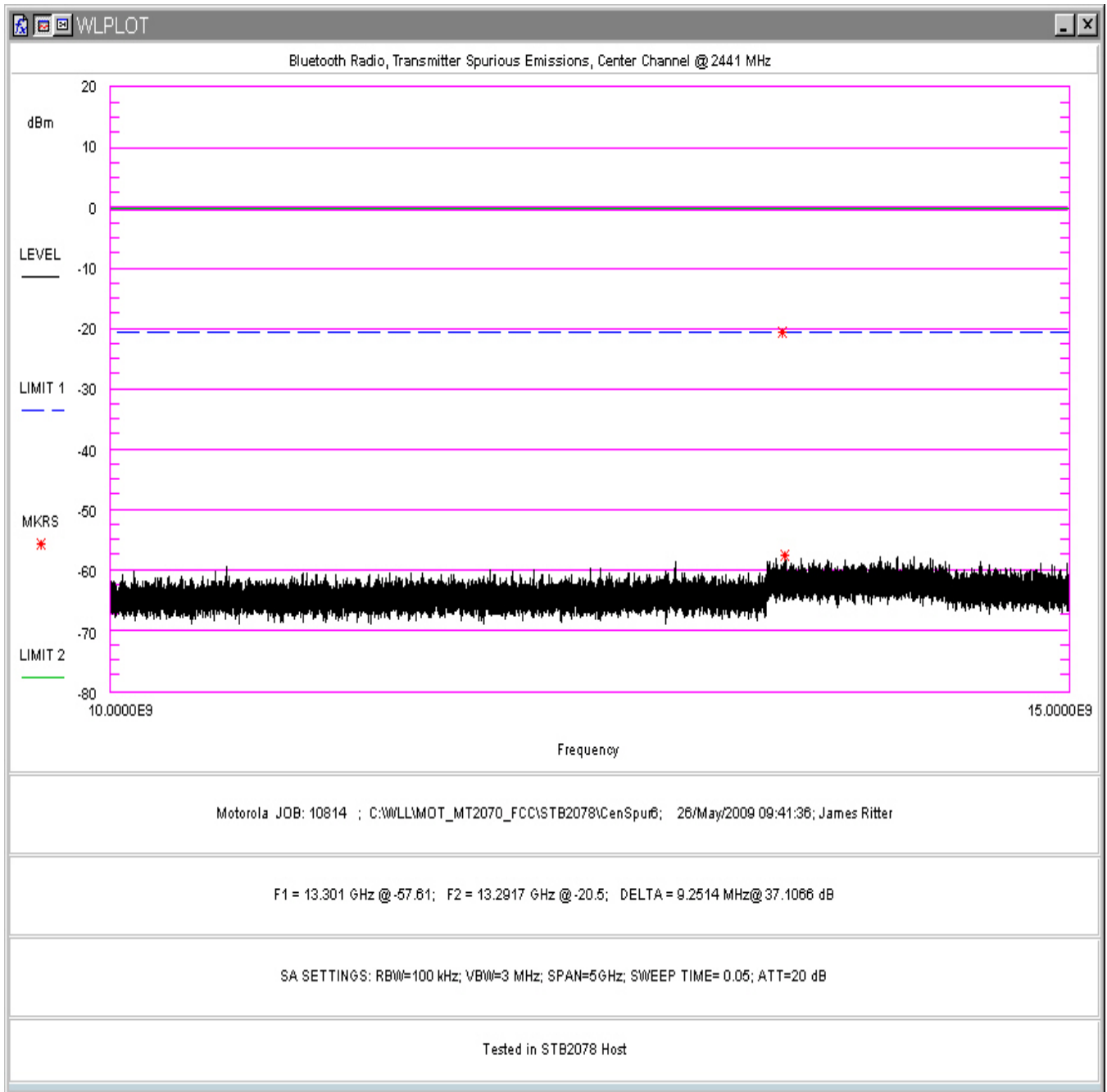


Figure 64. Conducted Spurious Emissions, Mid Channel 10- 15GHz (in STB2078 Host)

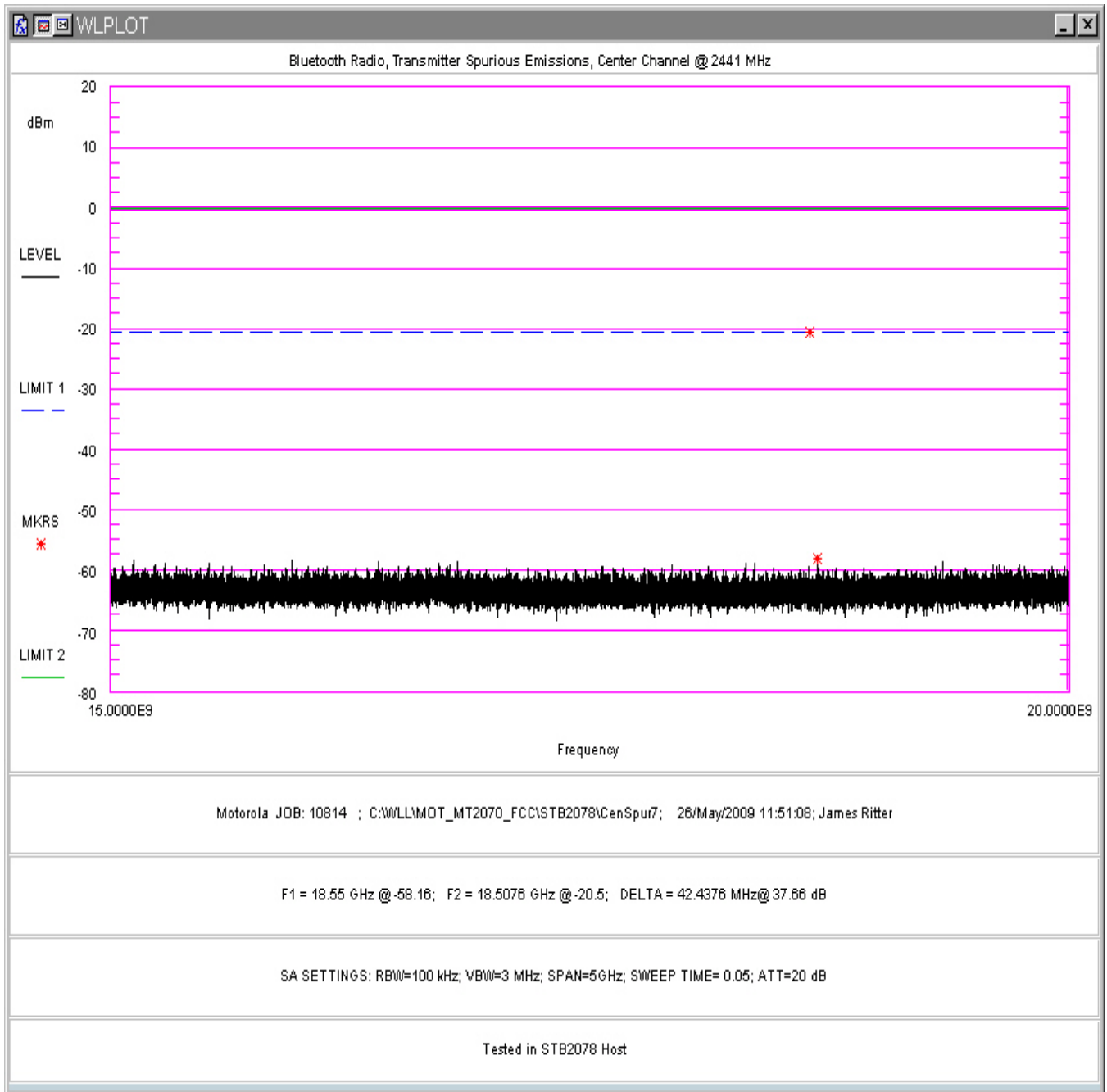


Figure 65. Conducted Spurious Emissions, Mid Channel 15- 20GHz (in STB2078 Host)

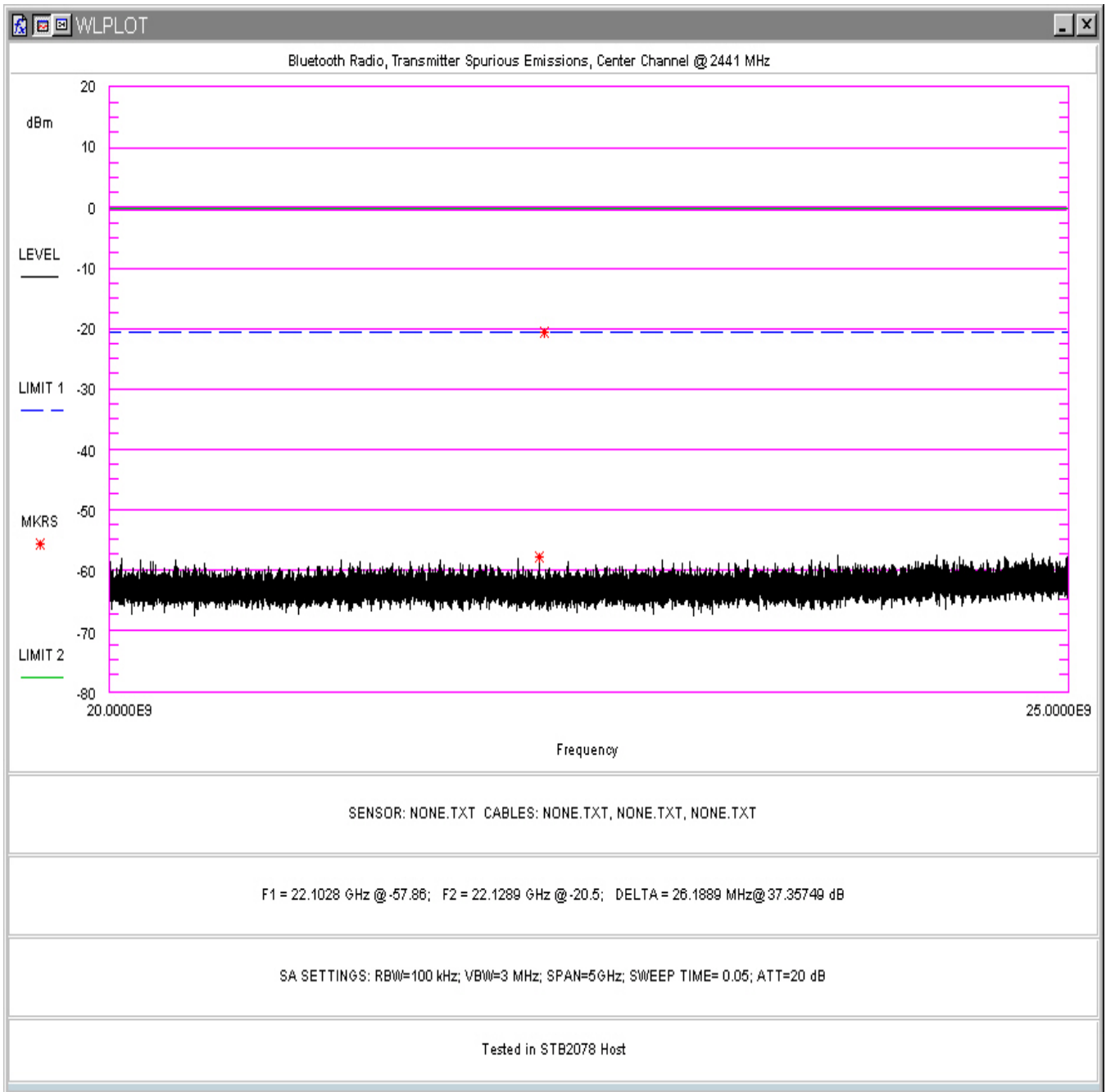


Figure 66. Conducted Spurious Emissions, Mid Channel 20-25GHz (in STB2078 Host)

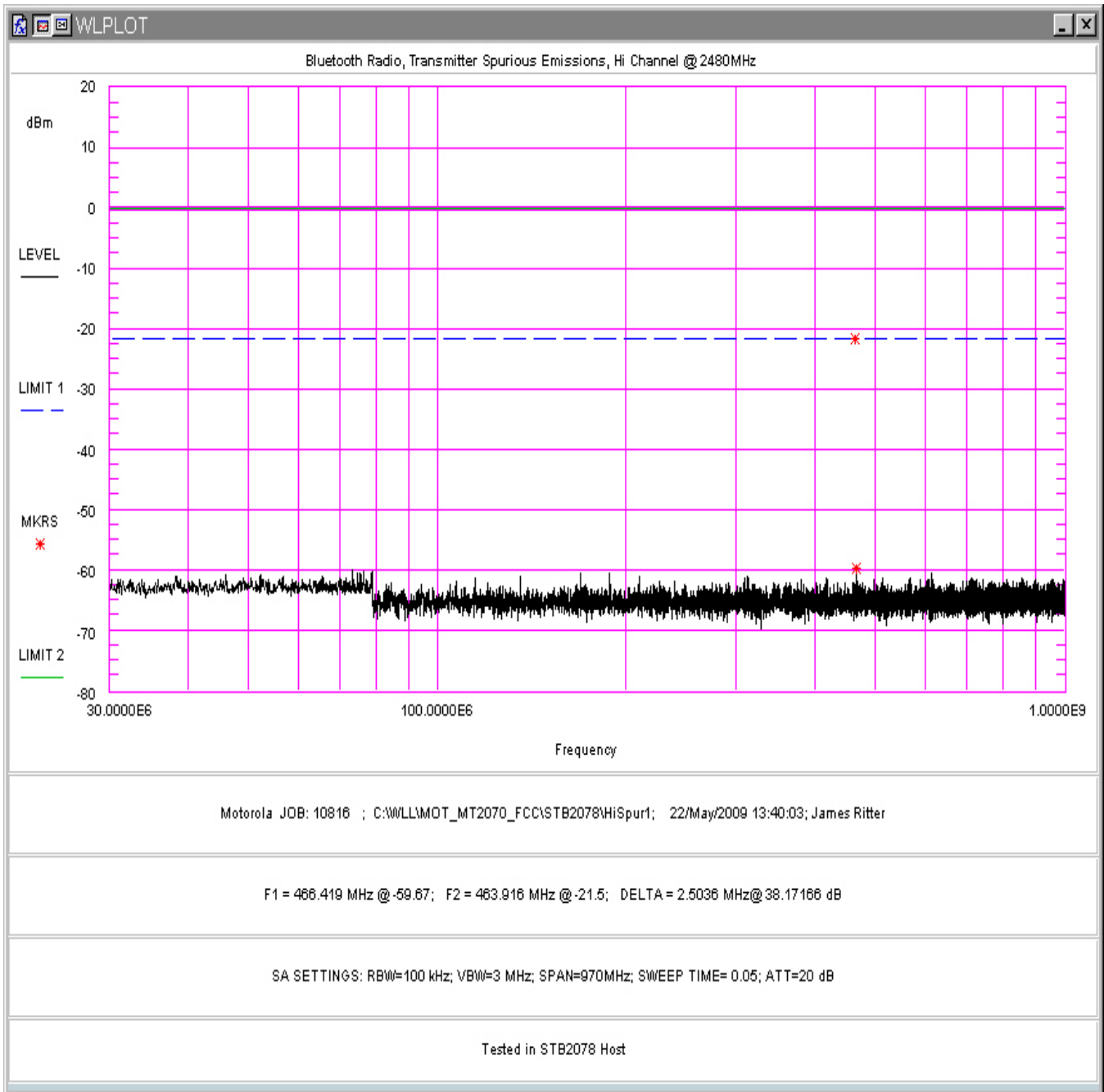


Figure 67 Conducted Spurious Emissions, High Channel 30 - 1000MHz (in STB2078 Host)

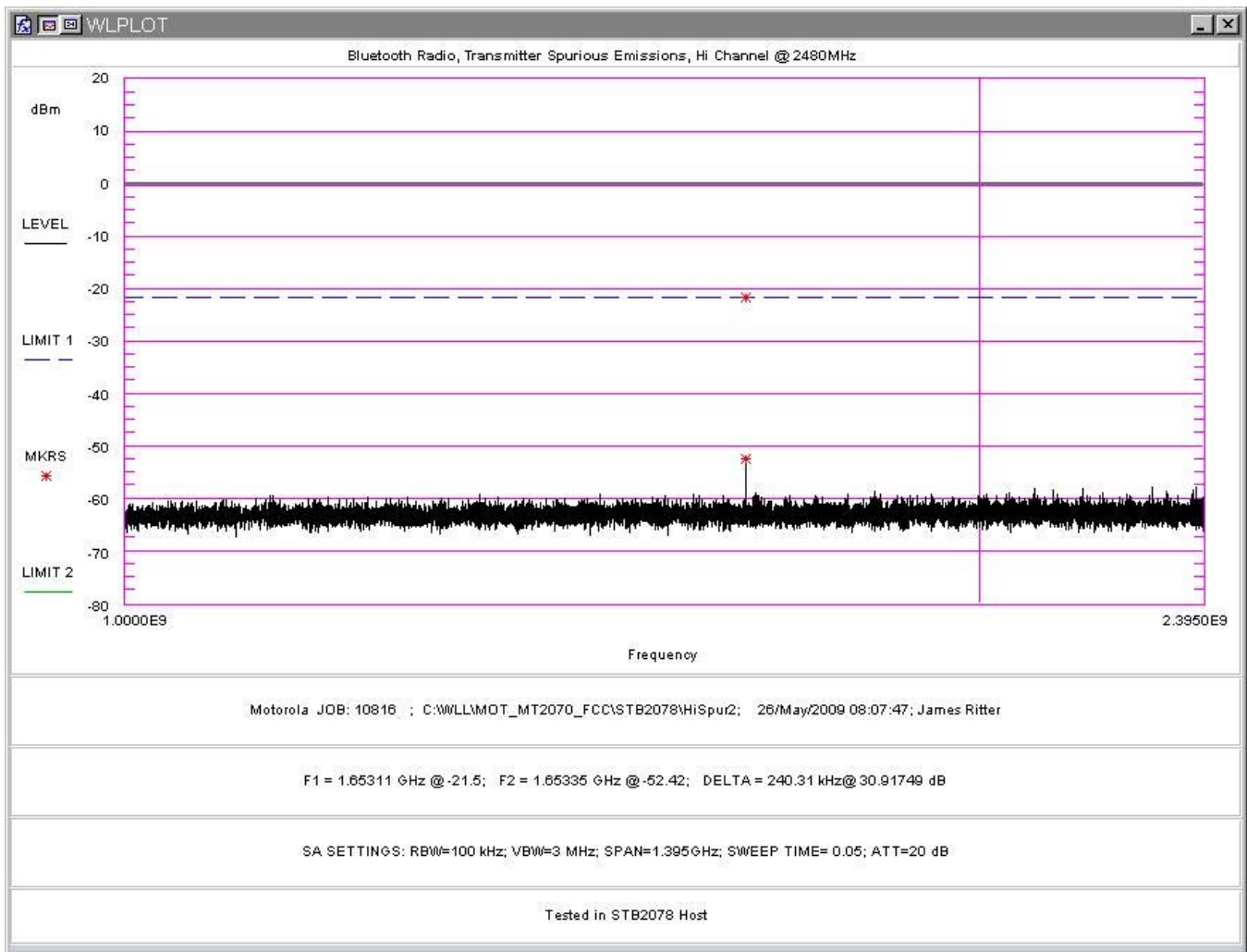


Figure 68. Conducted Spurious Emissions, High Channel 1 – 2.395GHz (in STB2078 Host)

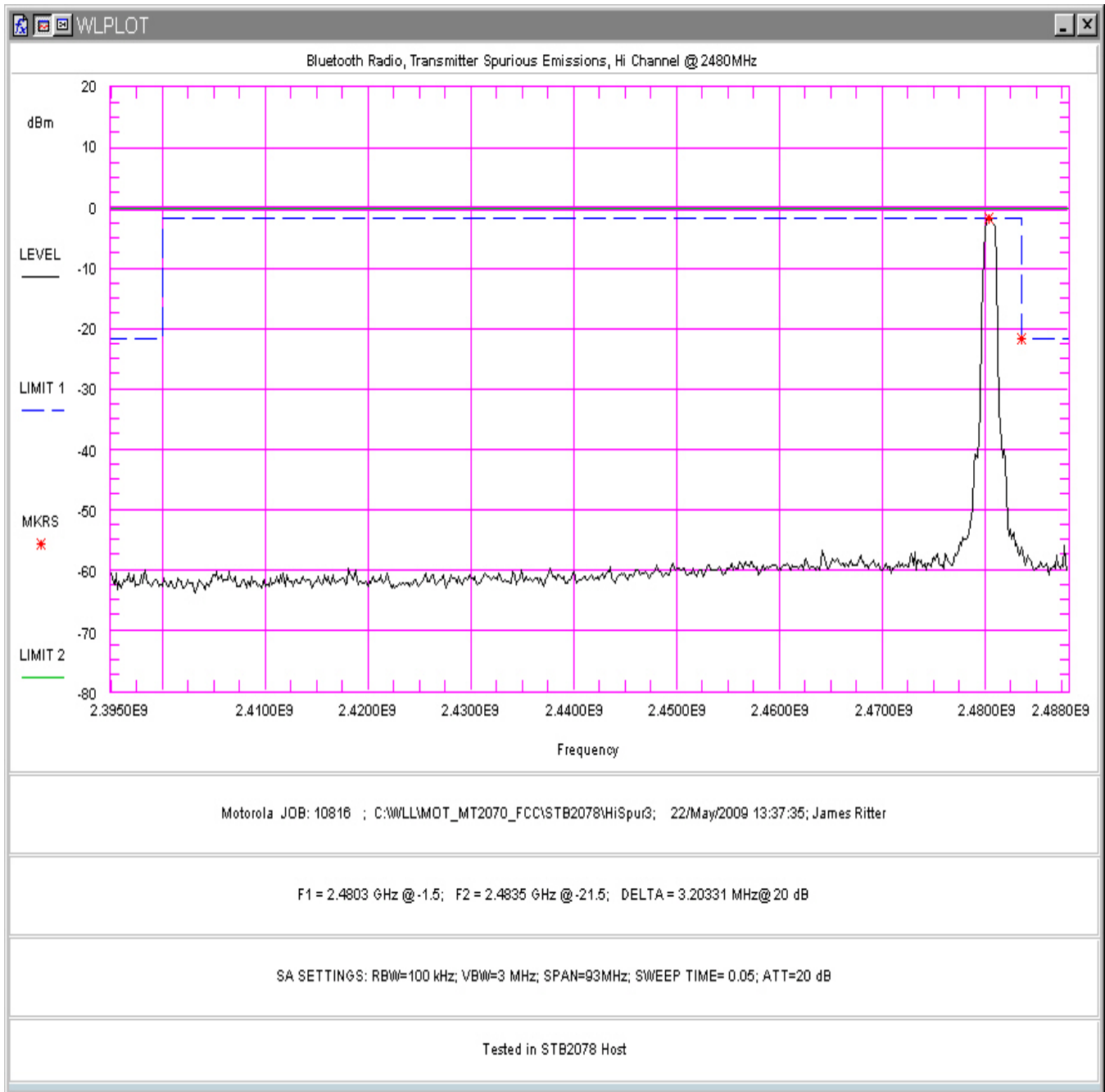


Figure 69. Conducted Spurious Emissions, High Channel 2.395- 2.488GHz (in STB2078 Host)

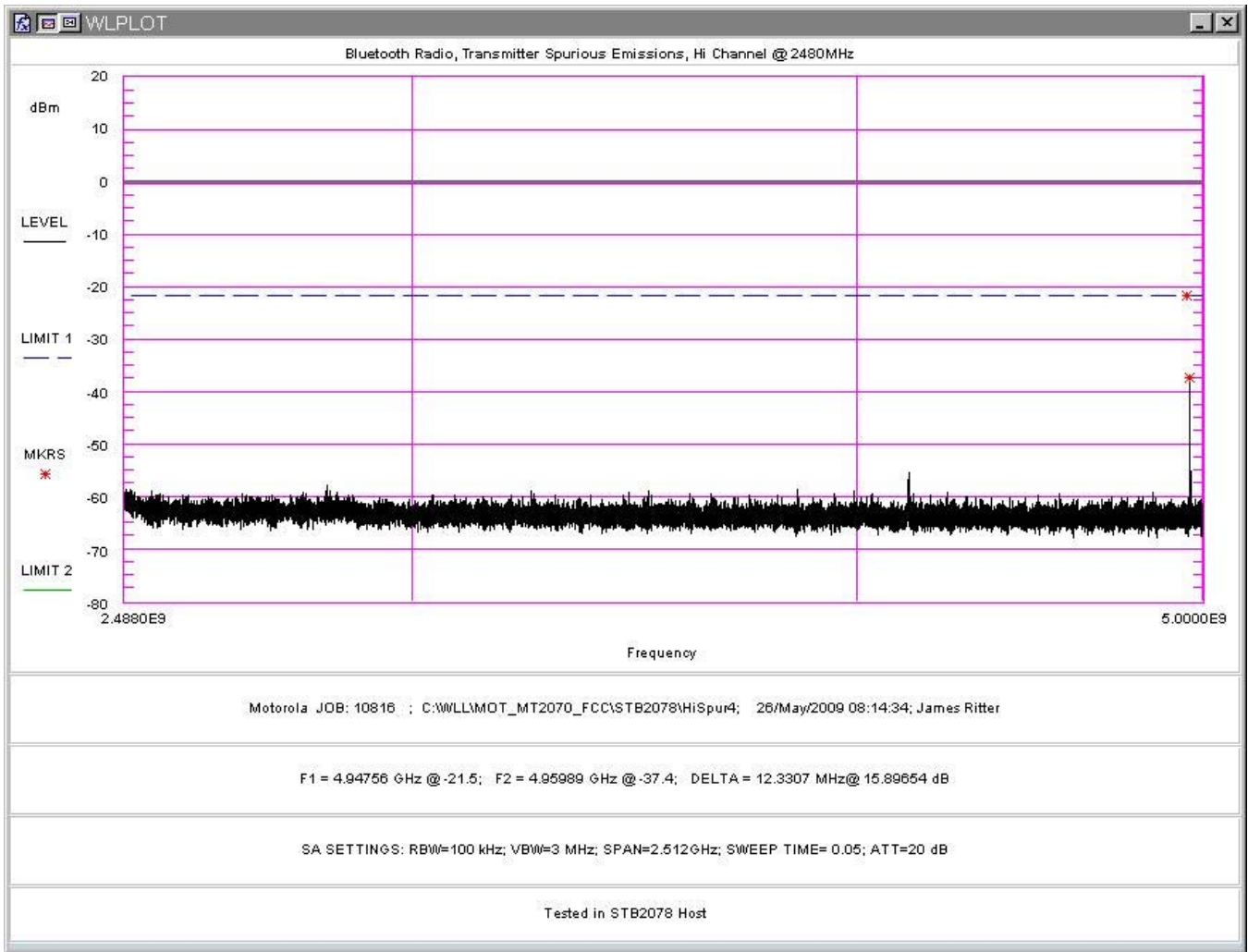


Figure 70. Conducted Spurious Emissions, High Channel 2.488 – 5 GHz (in STB2078 Host)

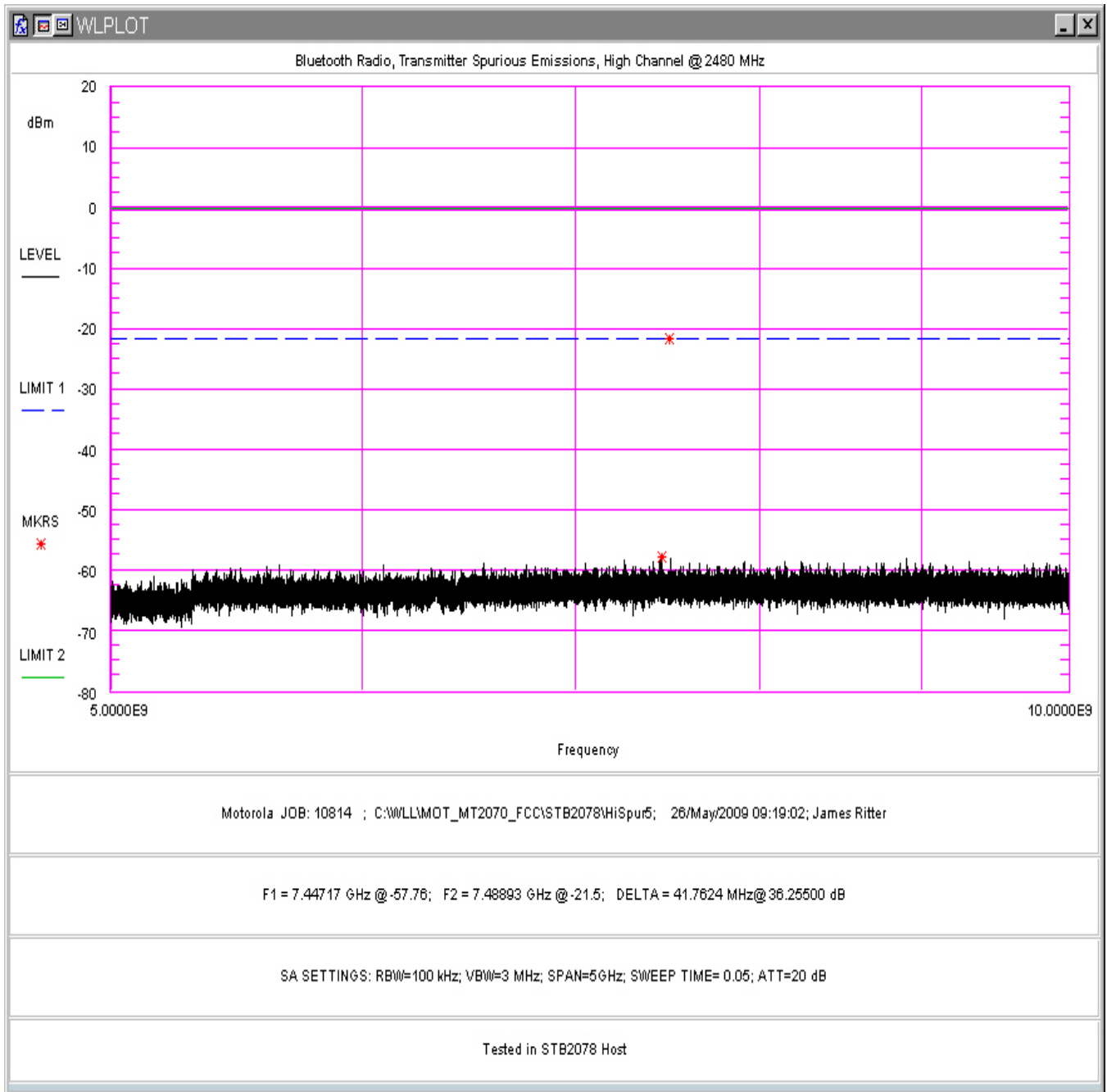


Figure 71. Conducted Spurious Emissions, High Channel 5-10GHz (in STB2078 Host)

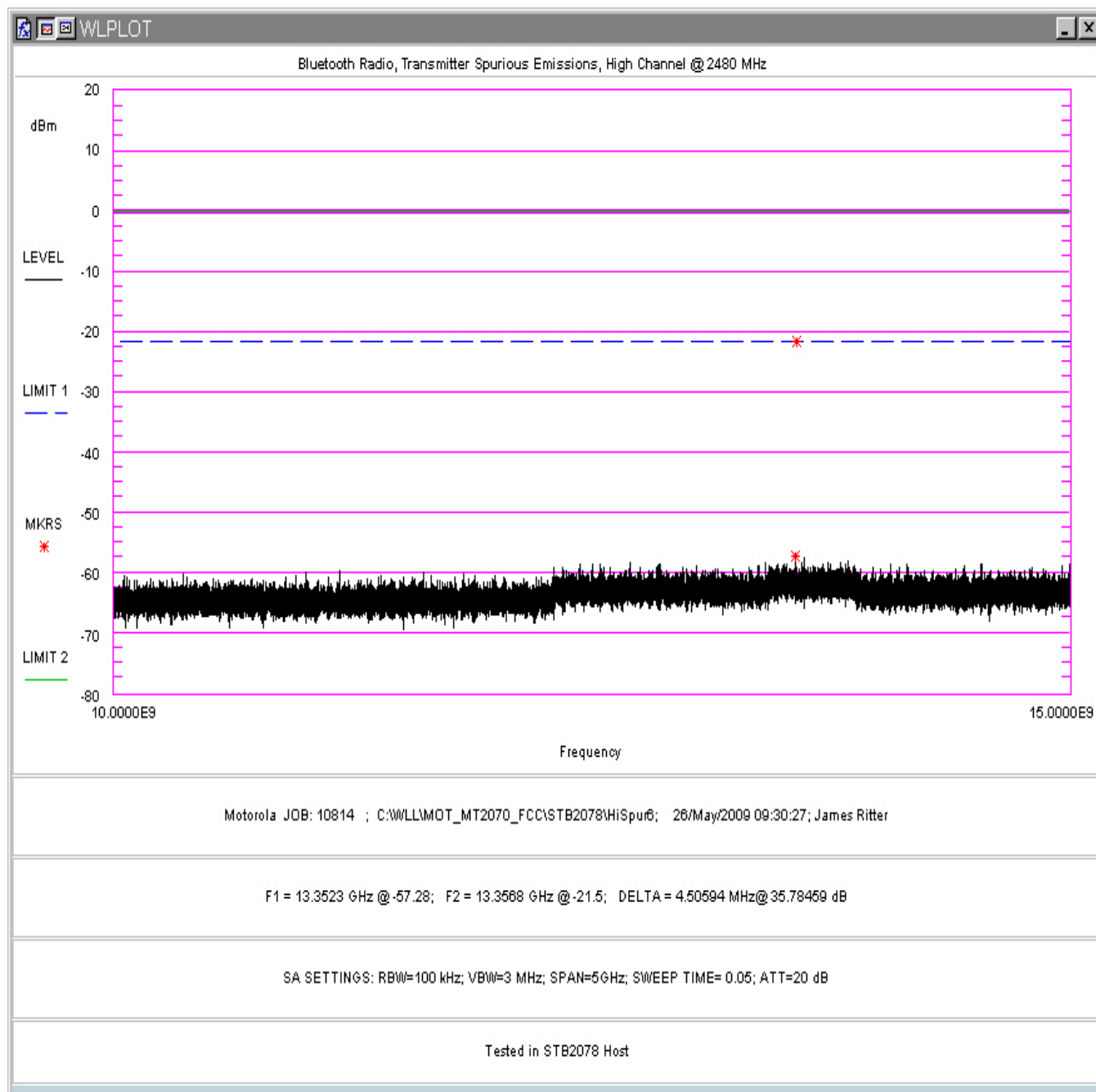


Figure 72. Conducted Spurious Emissions, High Channel 10- 15GHz (in STB2078 Host)

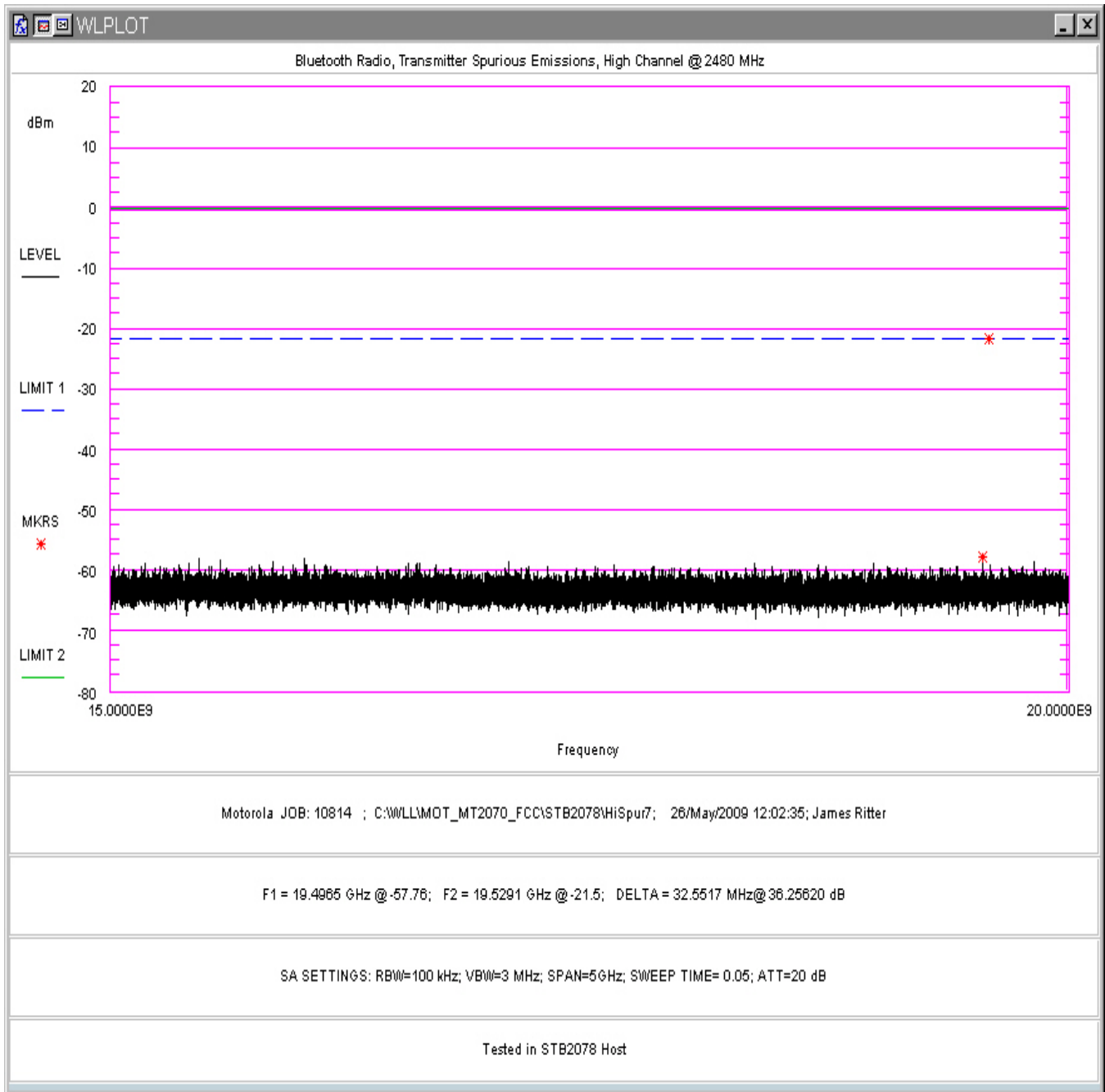


Figure 73. Conducted Spurious Emissions, High Channel 15- 20GHz (in STB2078 Host)

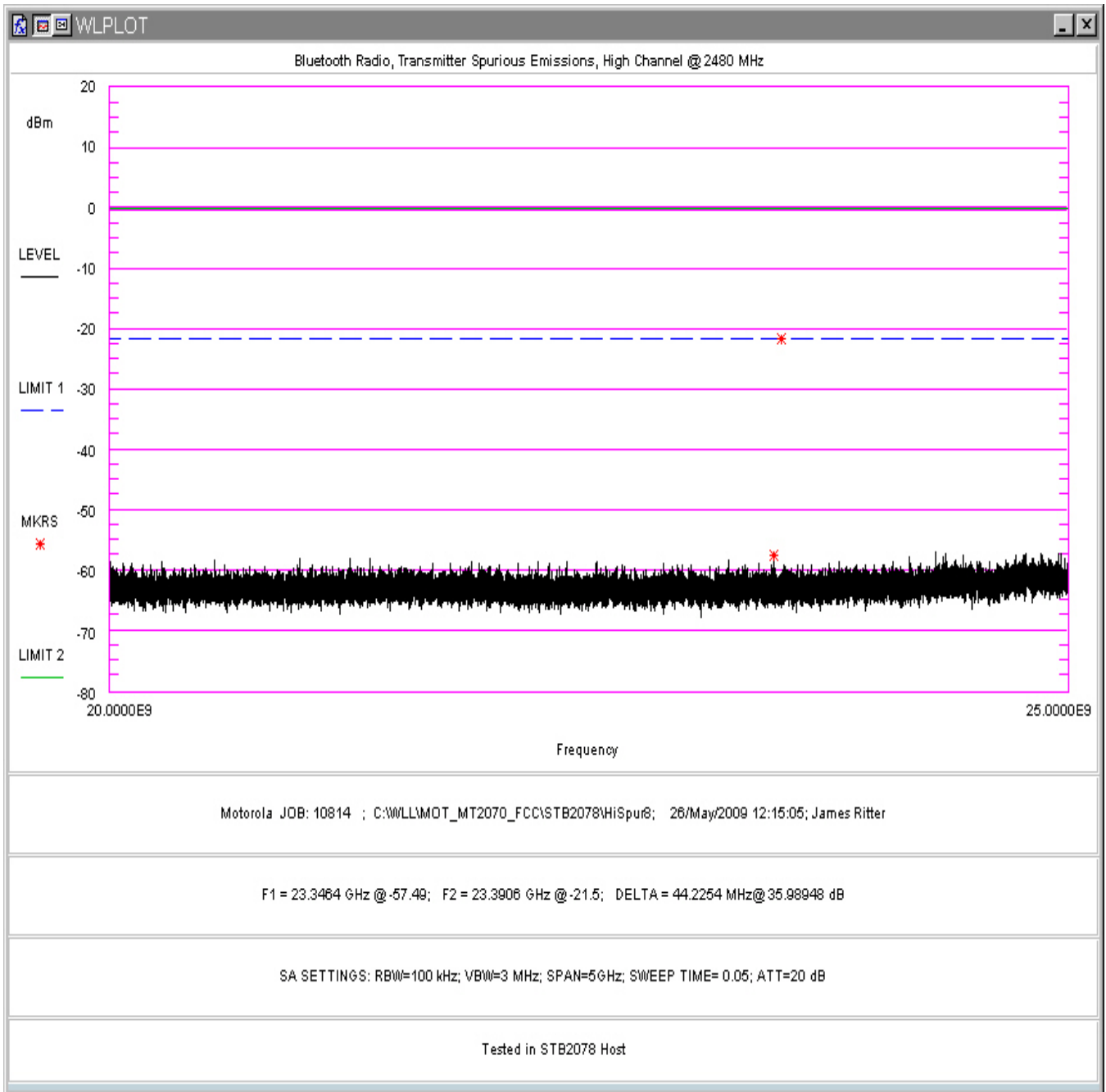


Figure 74. Conducted Spurious Emissions, High Channel 20-25GHz (in STB2078 Host)

5.6 Radiated Spurious Emissions: (FCC Part §2.1053)

The EUT must comply with the requirements for radiated spurious emissions that fall within the restricted bands. These emissions must meet the limits specified in §15.209 and §15.35(b) for peak measurements.

5.6.1 Test Procedure

The BCM2046 Bluetooth Module was tested radiated emissions in a host MT2070 Scanner unit with an internal 1.88 dBi Monopole Antenna. The BCM2046 Bluetooth Module was also tested for radiated emissions in a STB2078 scanner cradle unit with an integral 2.5dBi Omni antenna.

The EUT was placed on motorized turntable for radiated testing on a 3-meter open field test site. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. Receiving antennas were mounted on an antenna mast to determine the height of maximum emissions. The height of the antenna was varied between 1 and 4 meters. The peripherals were placed on the table in accordance with ANSI C63.4-2003. Cables were varied in position to produce maximum emissions. Both the horizontal and vertical field components were measured. The EUT was checked in 3 orthogonal and the worst case emissions reported.

The emissions were measured using the following resolution bandwidths:

Frequency Range	Resolution Bandwidth	Video Bandwidth
30MHz-1000 MHz	120kHz	>100 kHz
>1000 MHz	1 MHz	10 Hz (Avg.) 1MHz (Peak)