

Exhibit 6d: Bluetooth Measured Data– Pursuant 47 CFR 2.1041

6d.1. Bluetooth Carrier Frequency Separation – Pursuant 47 CFR 15.247(a)(1)

Criterion: Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

The measurement shows a carrier frequency separation of 1.008 MHz, which is greater than the measured 20 dB bandwidth of 923 kHz.

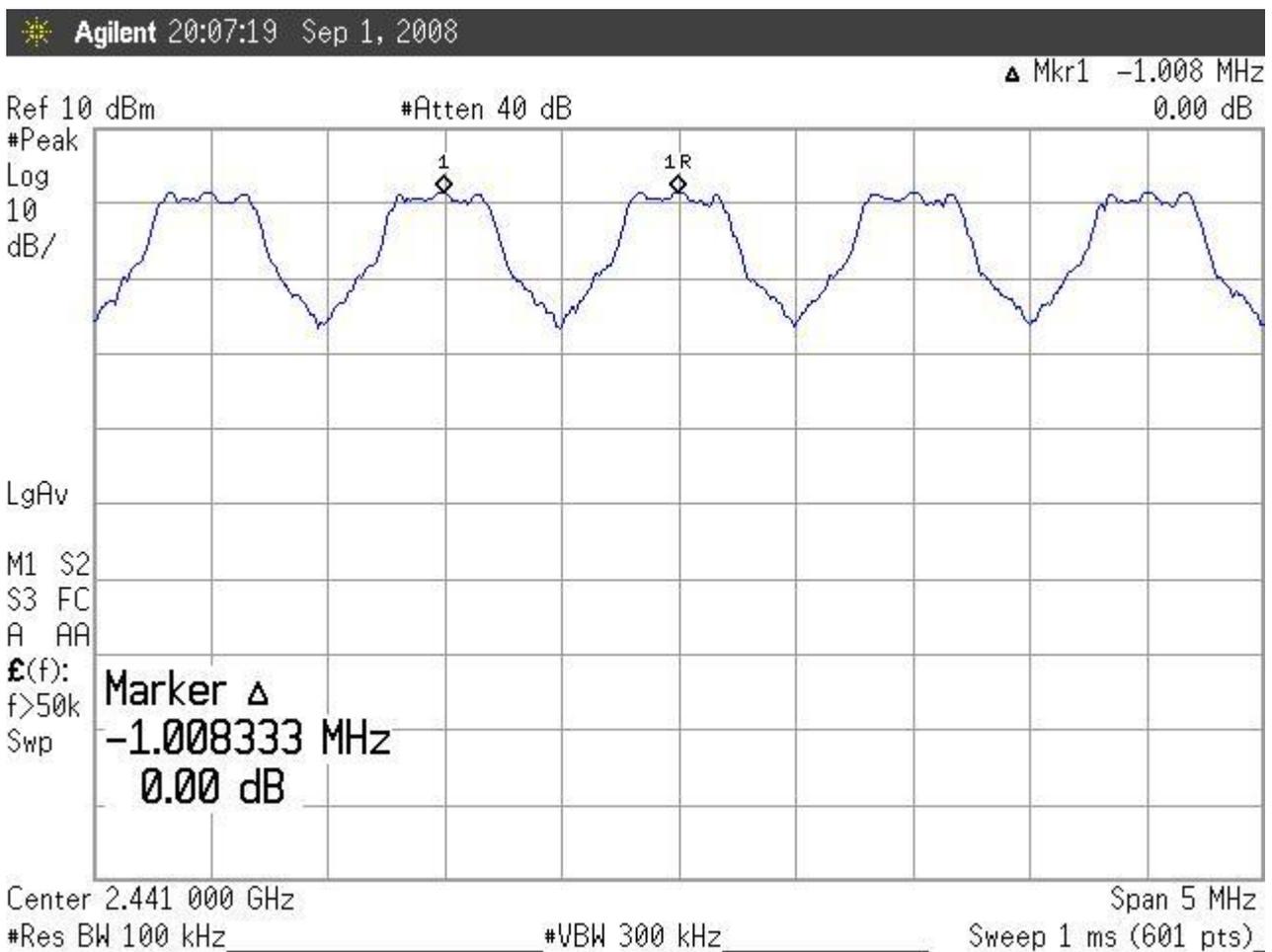


Figure 6d.1-1: Plot of Bluetooth carrier frequency separation

6d.2. 20 dB Bandwidth – Pursuant 47 CFR 15.247(a)(1)

The 20 dB bandwidth of the emission is 923 kHz.

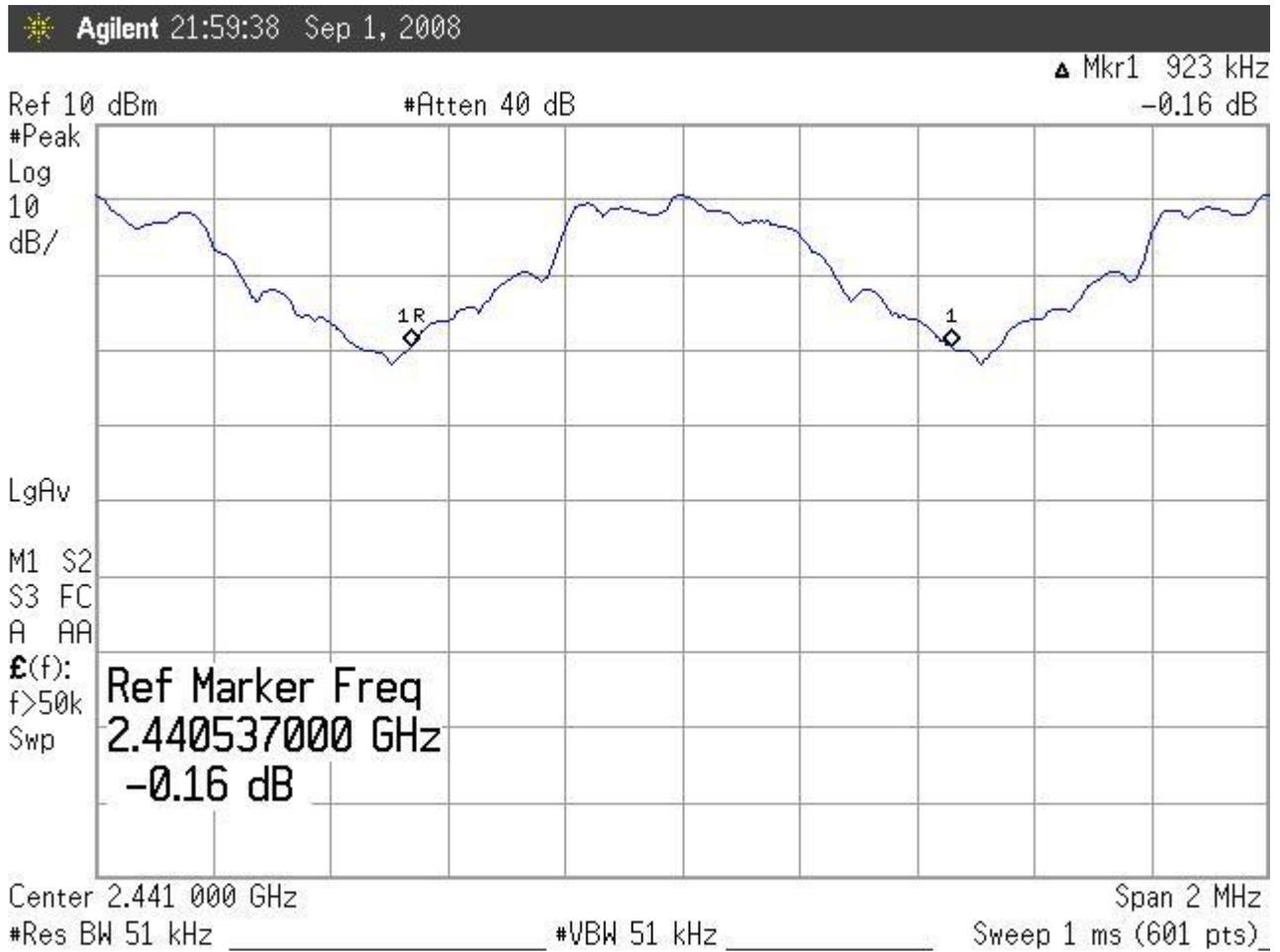


Figure 6d.2-1: Plot of 20 – dB bandwidth

6d.3. Bluetooth number of hopping frequencies – Pursuant 47 CFR 15.247(a)(1)(iii)

Criterion: Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

The measurement shows 79 non-overlapping channels over a span of 79 MHz.

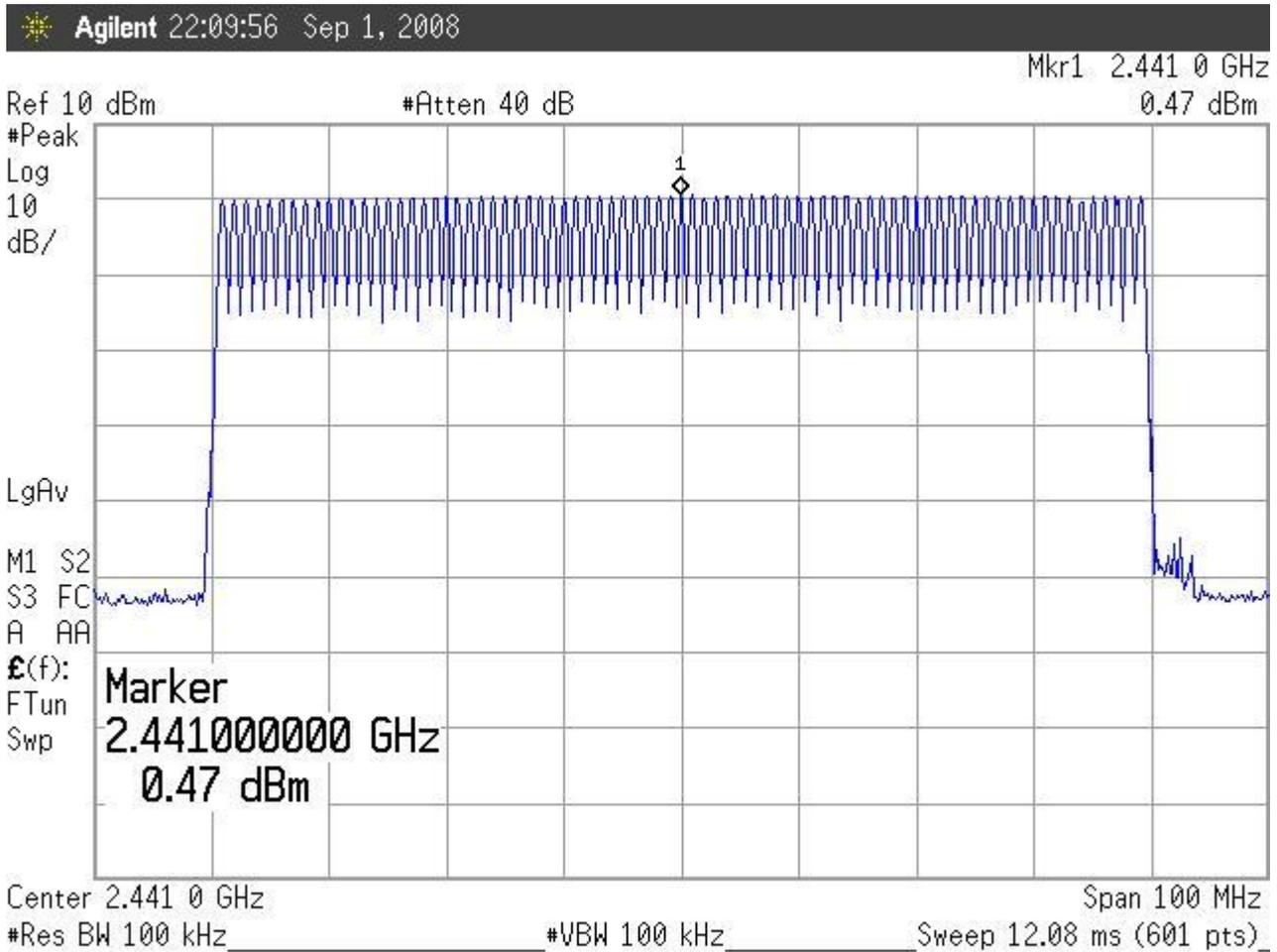


Figure 6d.3-1: Plot of number of Bluetooth hopping frequencies

6d.4. Time of Occupancy (Dwell Time) – Pursuant 47 CFR 15.247(a)(1)(iii)

Criterion: The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. This equates to a time period of 31.6 seconds.

The measurement shows the total dwell time in a 31.6 second period to be 136.666 ms.

A single measurement cannot be made over a 31.6 second period due to the coarse resolution in the time domain. A sweep is first made in a 4 second period. The resolution is not fine enough to capture the dwell time in each burst but the periodicity can be seen. The number of time slots occupied (41) can be extrapolated to show the number of time slots occupied within a 31.6 second period ($41 \cdot \frac{32s}{4s} = 328$).

Another sweep is made over a 5 ms period, allowing the measurement of the duration of one time-slot. This active time can be multiplied by the number of transmissions in a 31.6 second period to derive the total dwell time in a 31.6 second period. The specification is 400 ms maximum dwell time.

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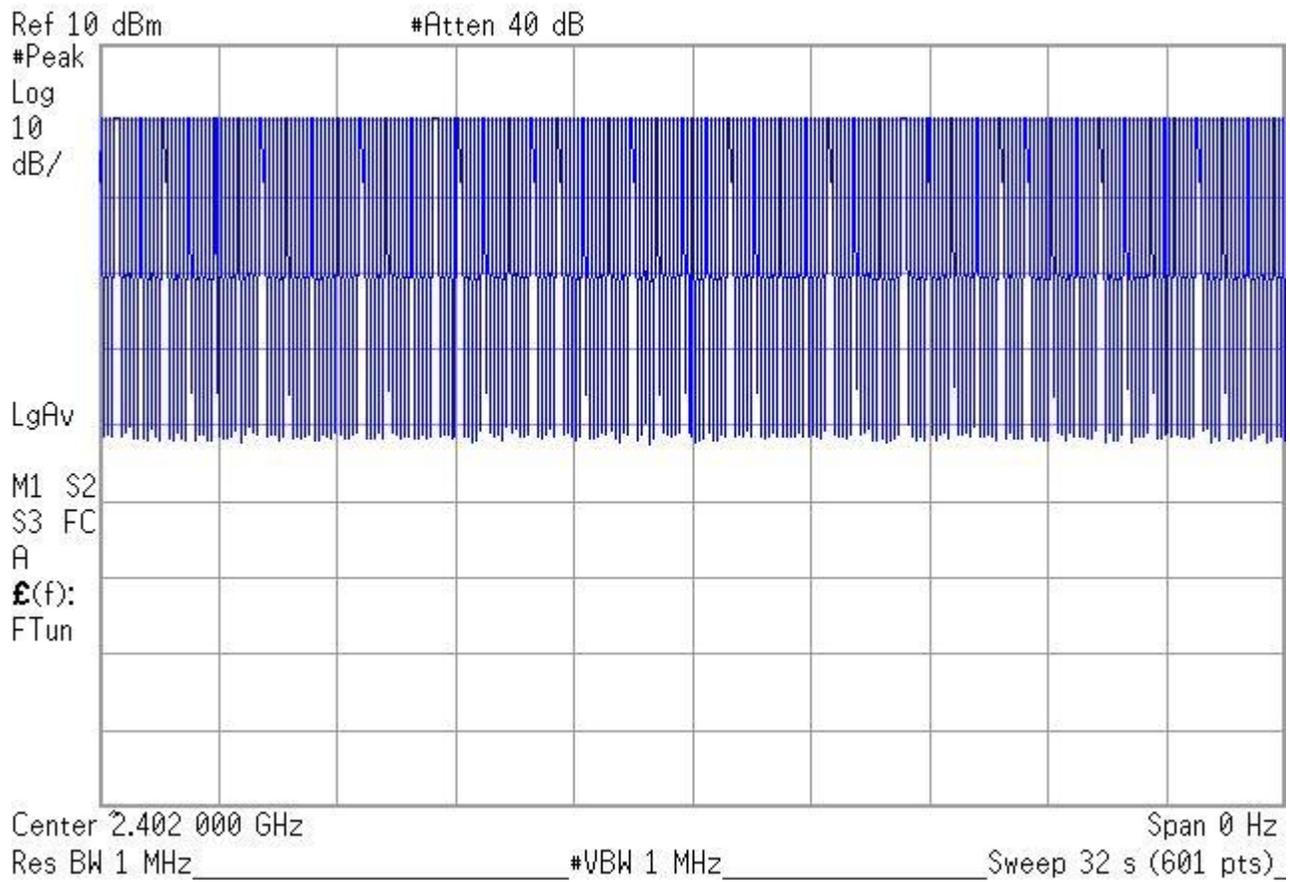


Figure 6d.4-1: Plot of dwell time over 32 second period

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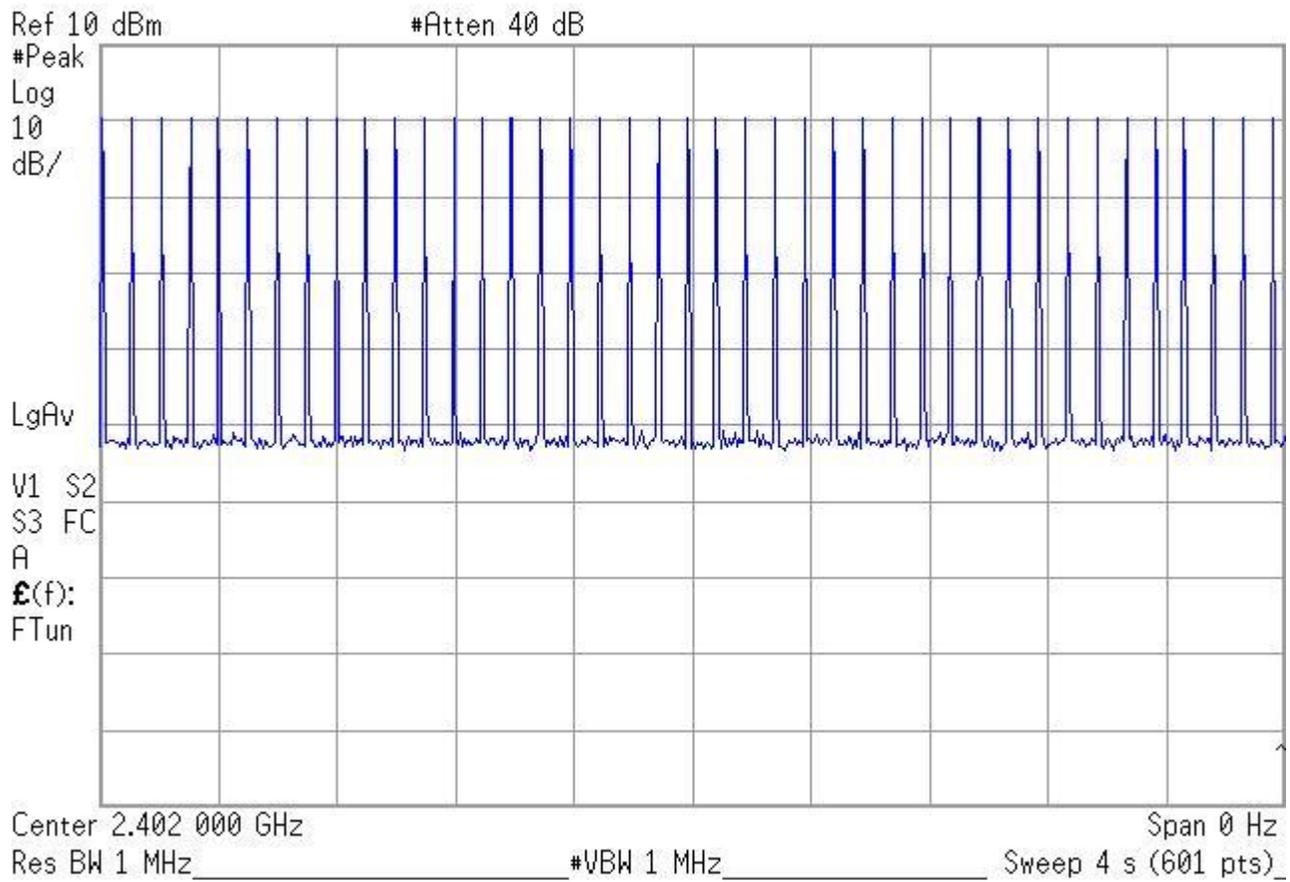


Figure 6d.4-2: Plot of dwell time over 4 second period.

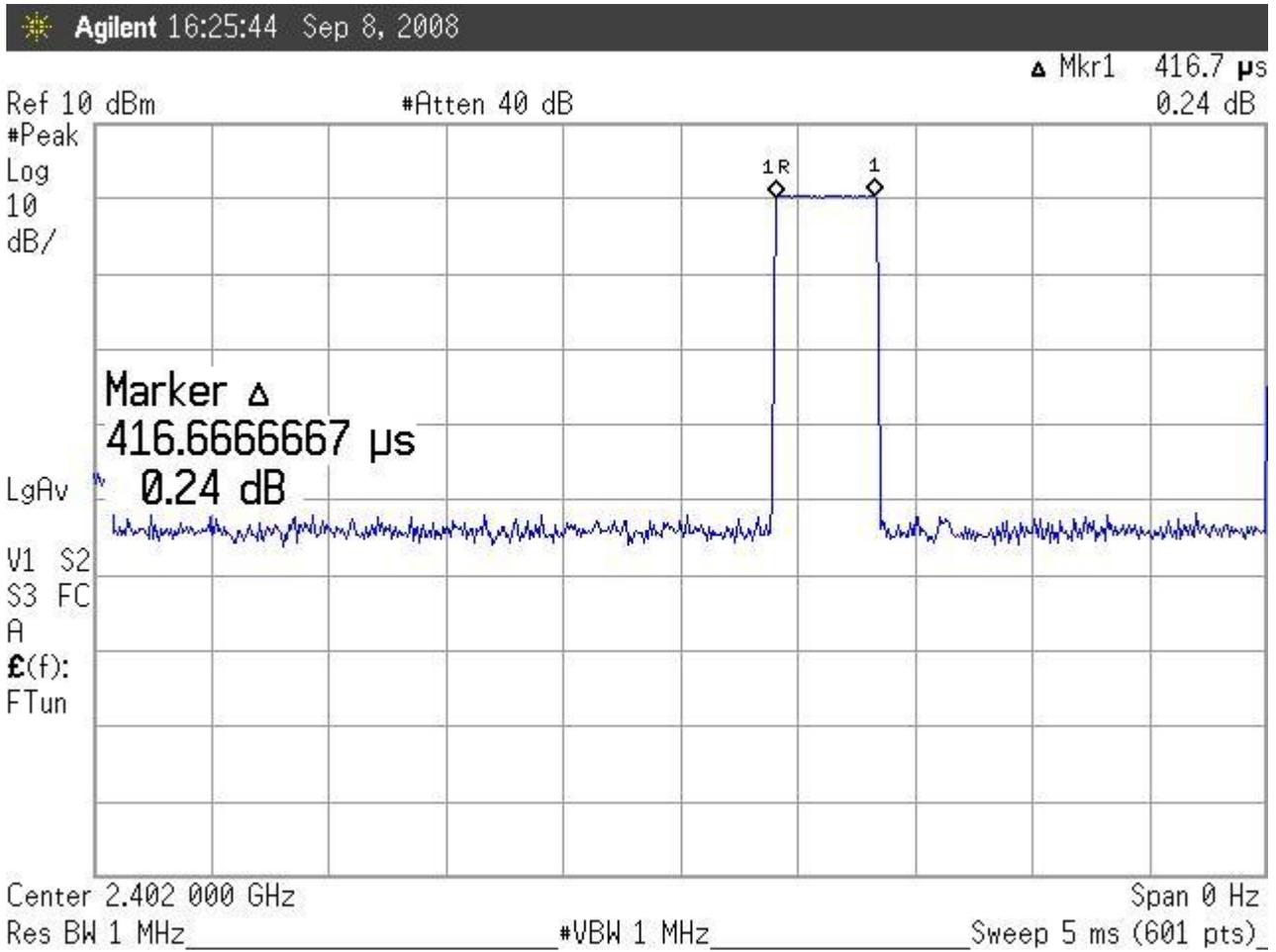


Figure 6d.4-3: Plot of dwell time over 5 ms period.

6d.5. Peak Bluetooth Output Power – Pursuant 47 CFR 15.247(b)(1)

Criterion: For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt.

The peak output power is 1.35 dBm, which is equivalent to 1.36 mW.

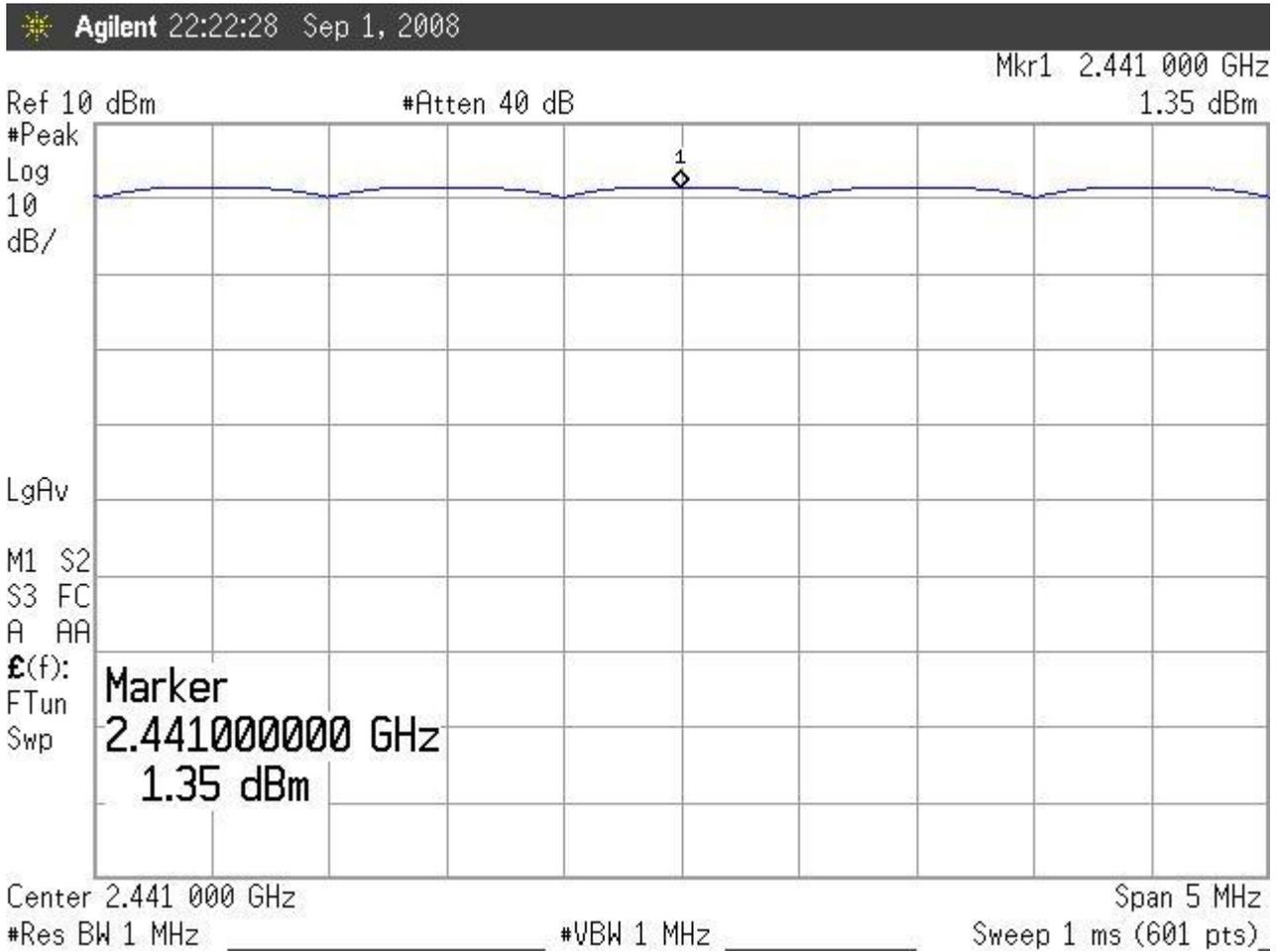


Figure 6d.5-1: Plot of peak output power

6d.6. Band-Edge Compliance of RF Conducted Emissions – Pursuant 47 CFR 15.247(d)

Criterion: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

The measurement shows 46.30 dB at the lower band edge and 44.31 dB at the upper band edge with the hopping function disabled. The measurement shows 52.38 dB at the lower band edge and 45.46 dB at the upper band edge with the hopping function enabled.

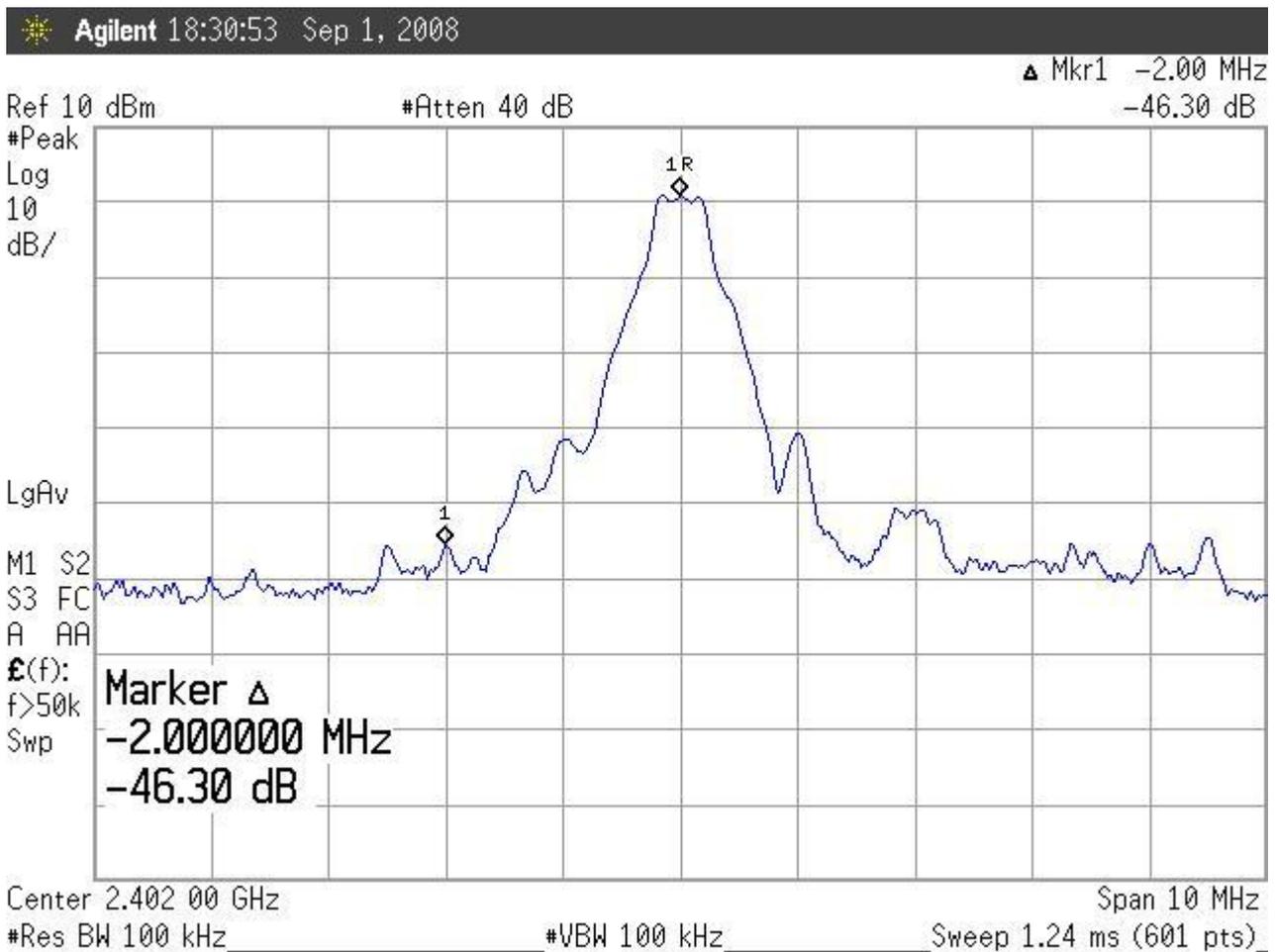


Figure 6d.6-1: Plot of lower band-edge conducted emissions with hopping disabled

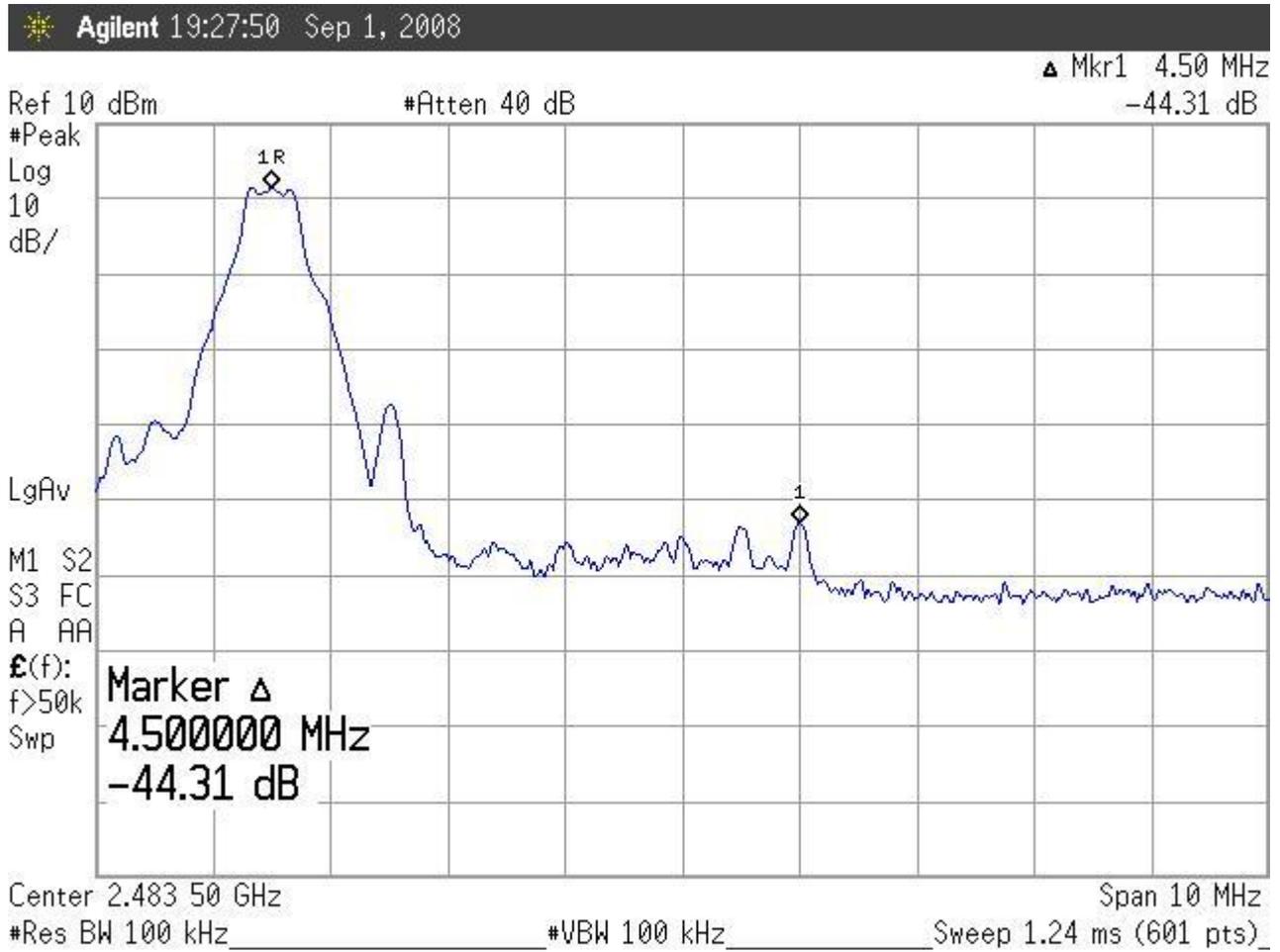


Figure 6d.6-2: Plot of upper band-edge conducted emissions with hopping disabled.

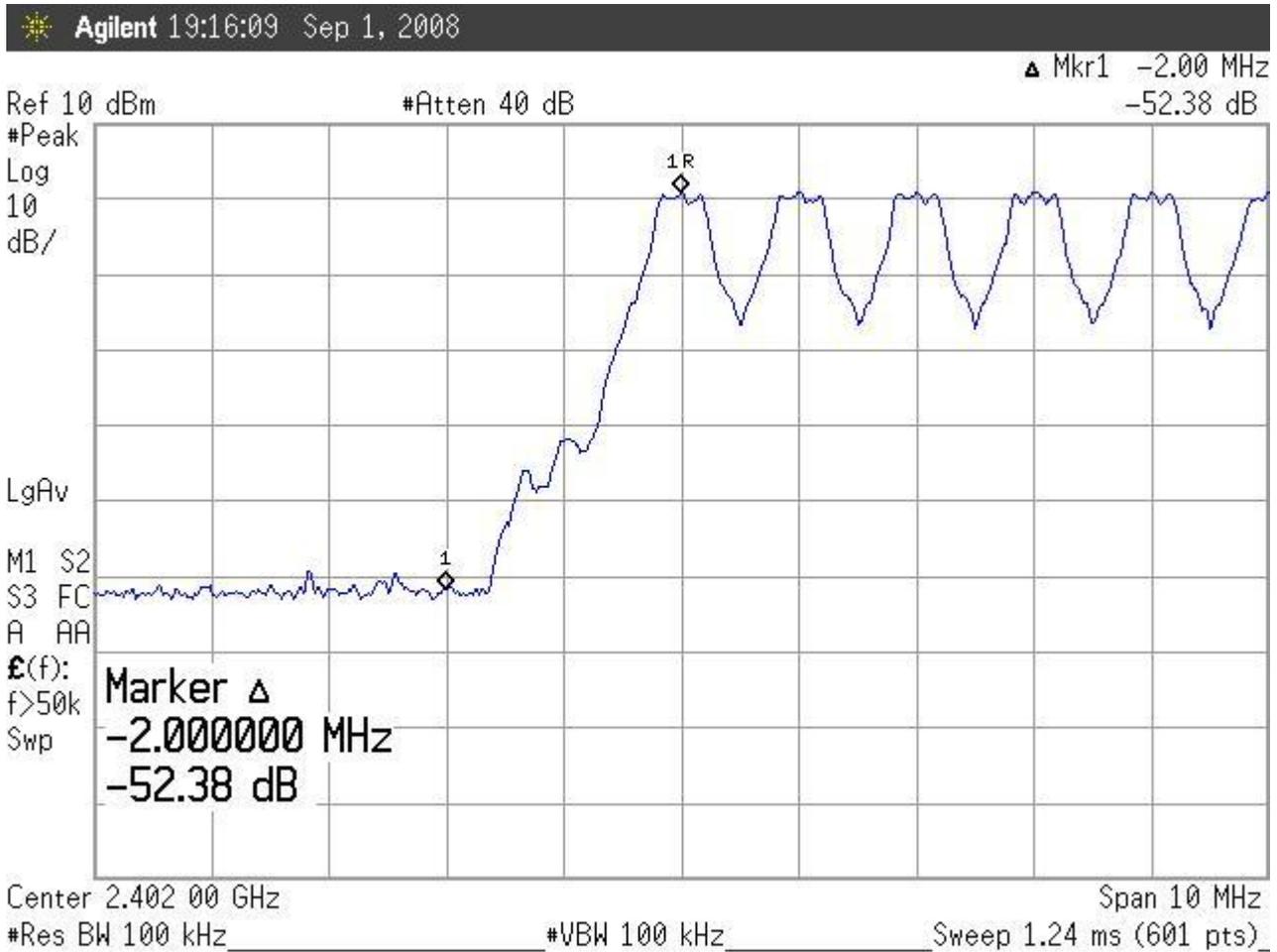


Figure 6d.6-3: Plot of lower band-edge conducted emissions with hopping enabled.

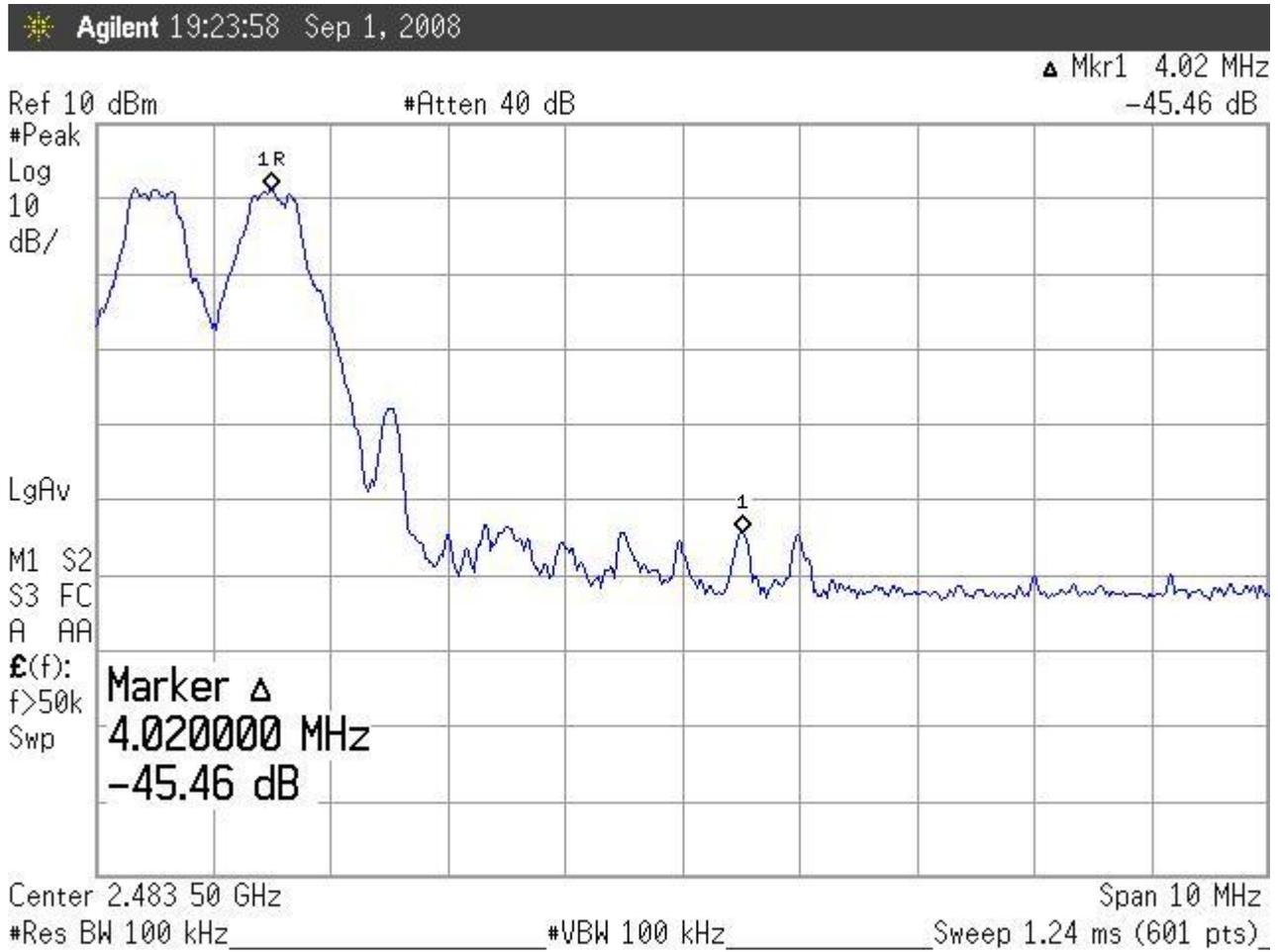


Figure 6d.6-4: Plot of upper band-edge conducted emissions with hopping enabled.

6d.7. Spurious RF Conducted Emissions – Pursuant 47 CFR 15.247(d)

Criterion: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

The emissions are below 30 dBc at the second harmonic of the transmit frequency and far lower at all other frequencies.

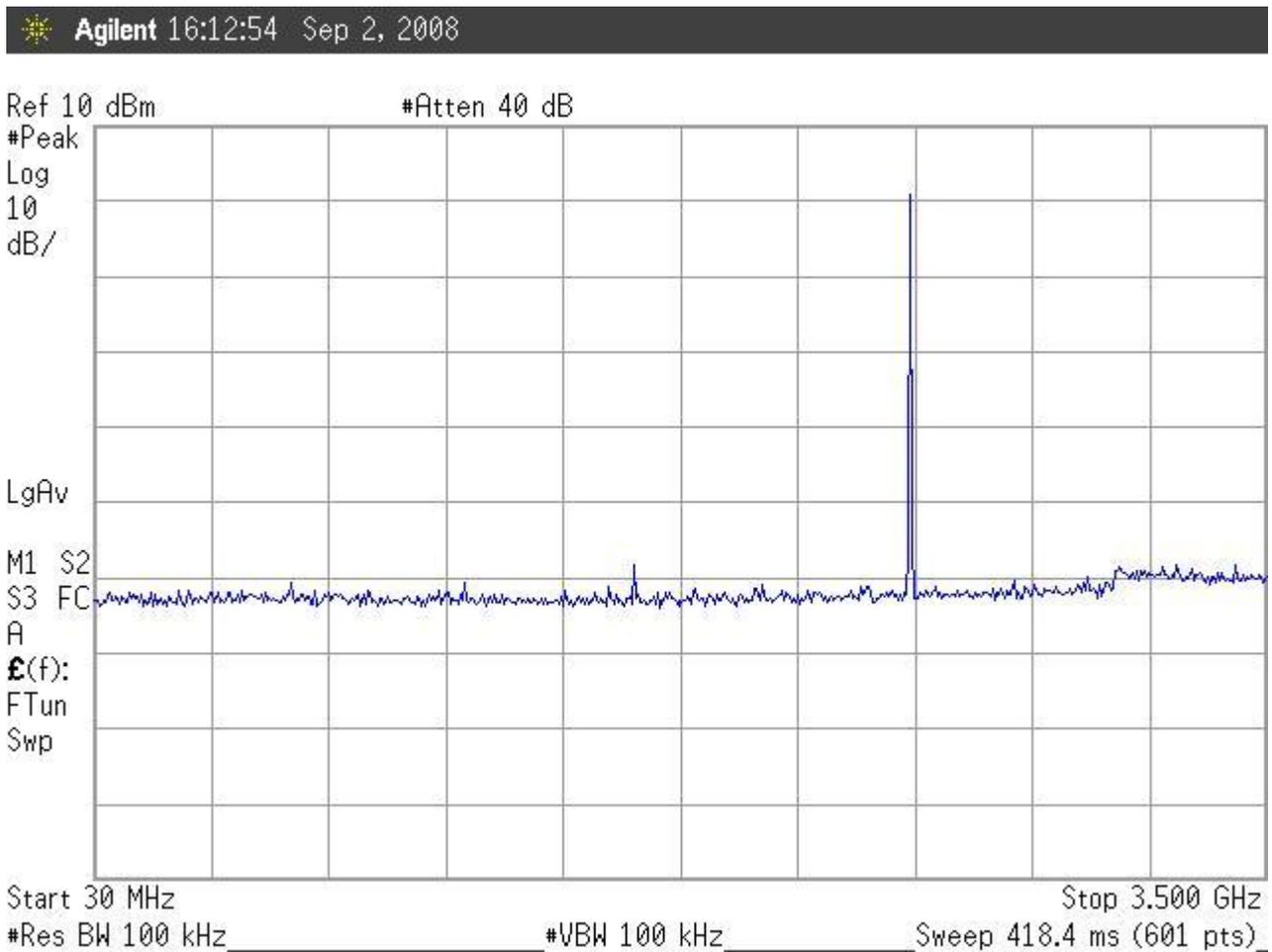


Figure 6d.7-1: Plot of spurious conducted emissions 30 MHz – 3.5 GHz.

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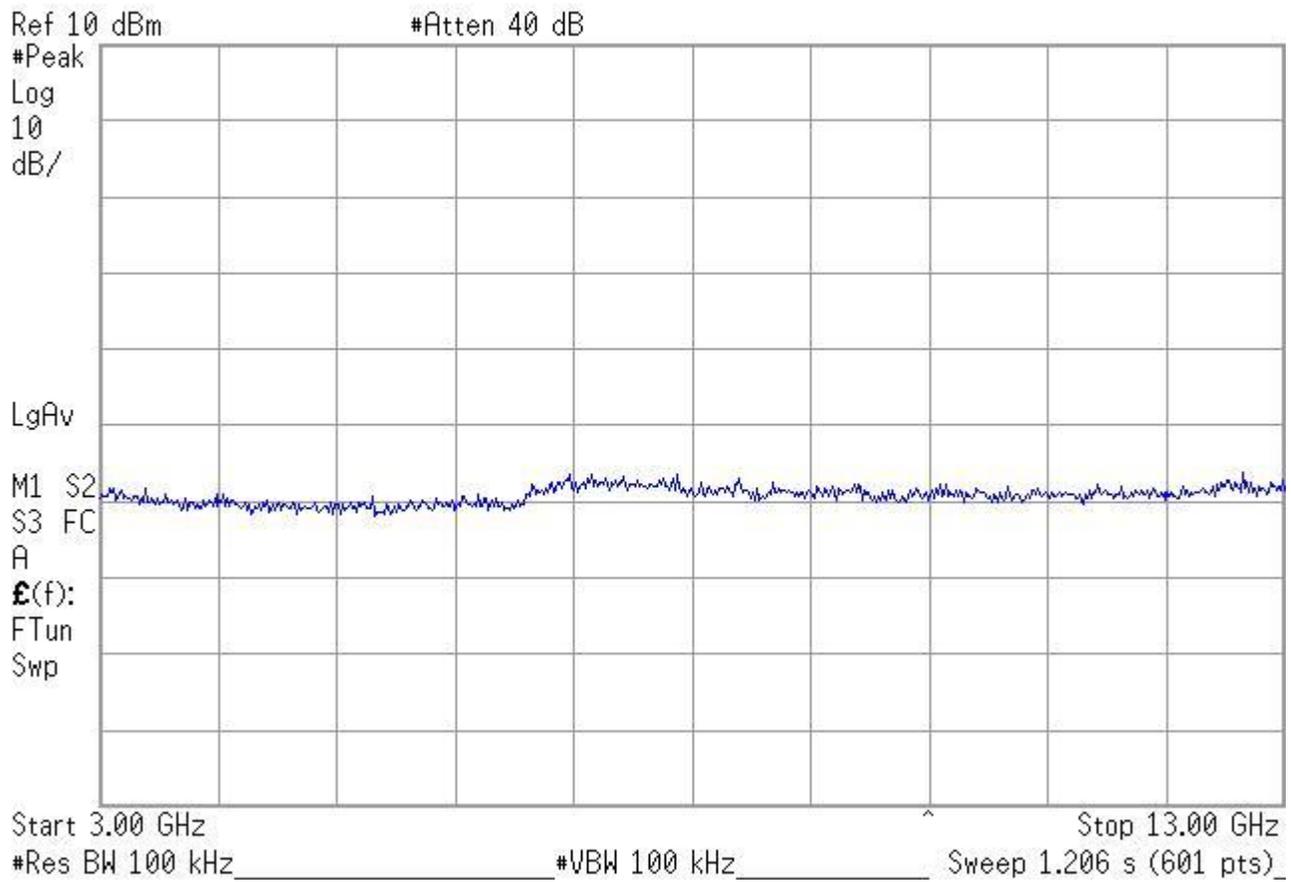


Figure 6d.7-2: Plot of spurious conducted emissions 3 GHz – 13 GHz.

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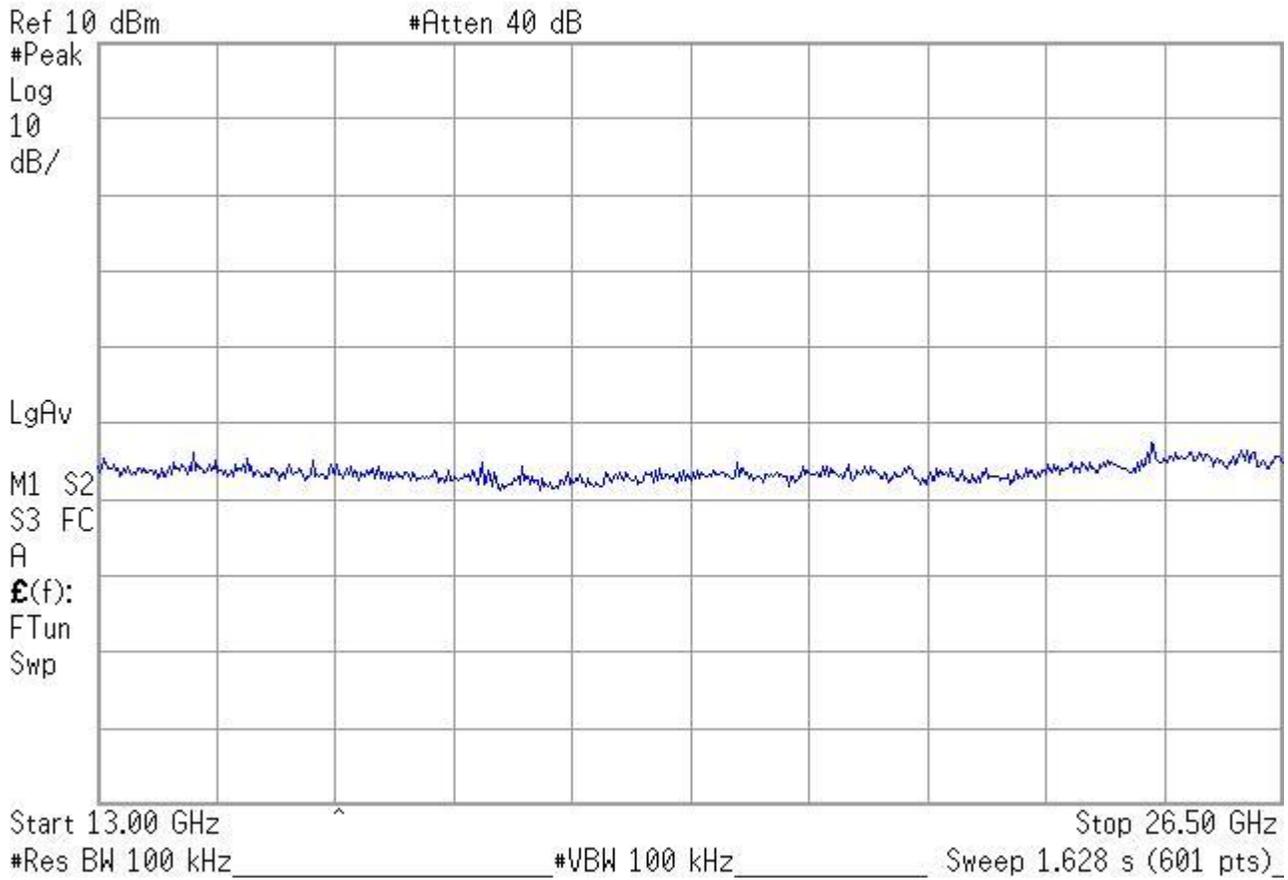


Figure 6d.7-3: Plot of spurious conducted emissions 13 GHz – 26.5 GHz.

6d.8. Measurement Equipment List ---- 47 CFR 2.947(d)

1. Spectrum Analyzer:

Agilent E4440A 3 Hz-26.5 GHz PSA Series Spectrum Analyzer

Equipment Serial Number: 65712

Calibration Date: 9/1/2008