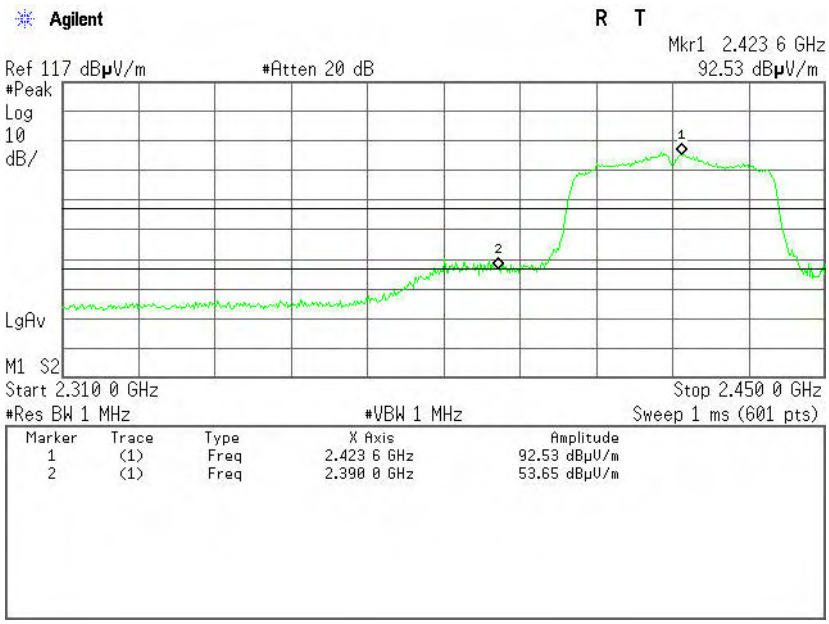
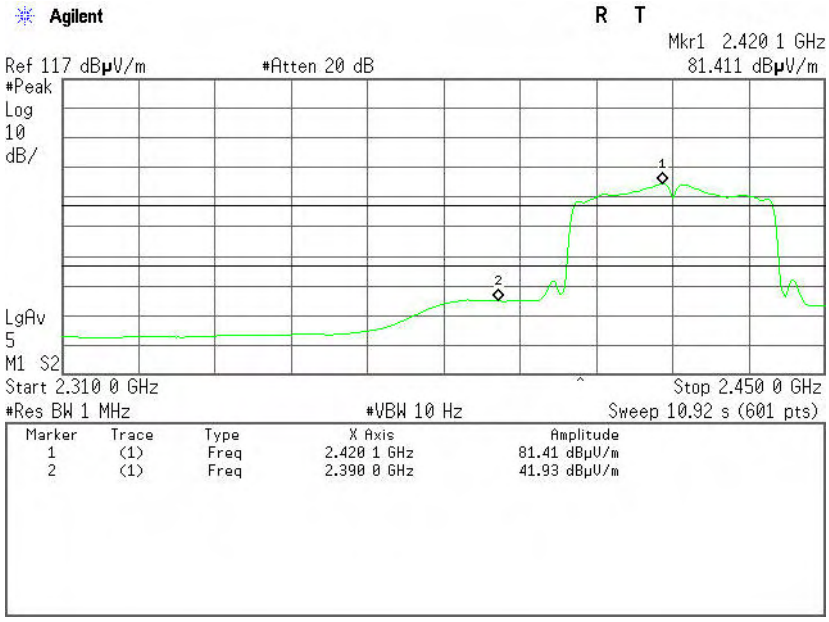
Detector mode: Peak **Polarity: Horizontal**



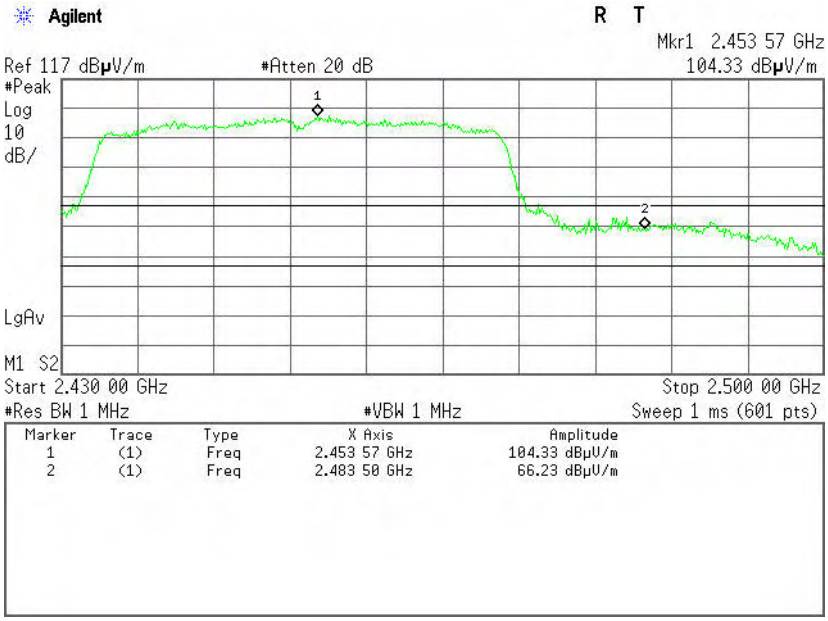
Detector mode: Average **Polarity: Horizontal**



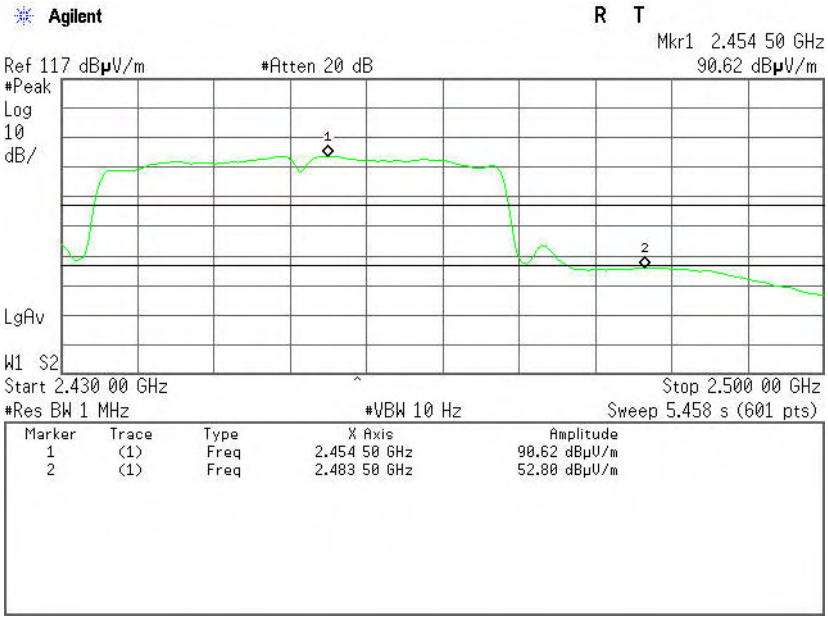
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	47.05	-6.60	53.65	74.00	-20.35	Peak	Horizontal
2	2390.0000	35.33	-6.60	41.93	54.00	-12.07	Average	Horizontal

Band Edges (CH High)

Detector mode: Peak Polarity: Vertical

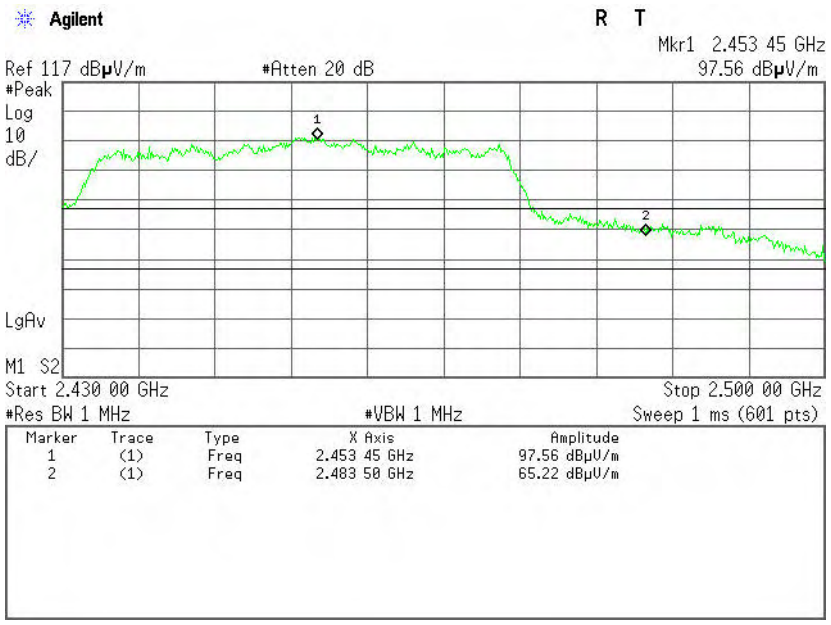


Detector mode: Average Polarity: Vertical

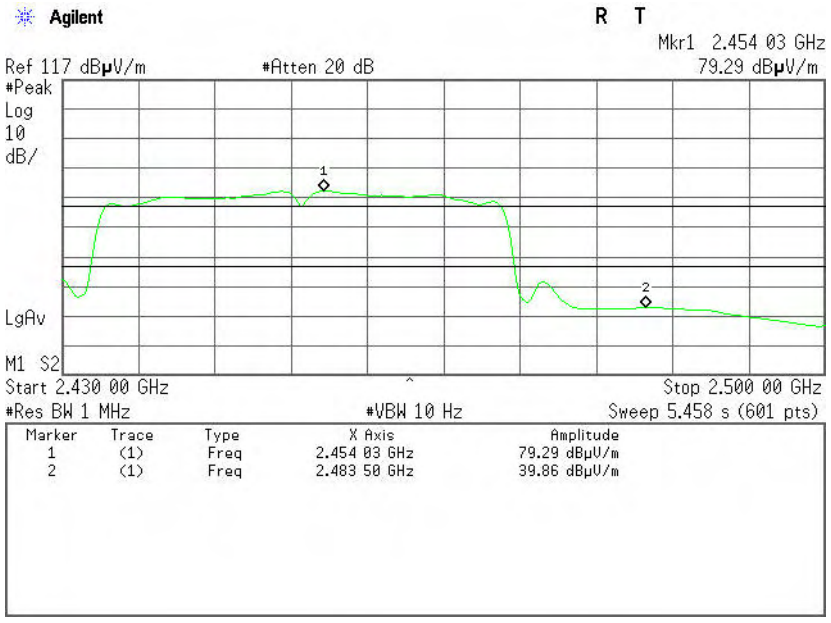


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	59.99	-6.24	66.23	74.00	-7.77	Peak	Vertical
2	2483.5000	46.56	-6.24	52.80	54.00	-1.20	AVG	Vertical

Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	58.98	-6.24	65.22	74.00	-8.78	Peak	Horizontal
2	2483.5000	33.62	-6.24	39.86	54.00	-14.14	AVG	Horizontal

7.6. PEAK POWER SPECTRAL DENSITY MEASUREMENT

7.6.1. LIMITS

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

7.6.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	03/09/2013	03/08/2014

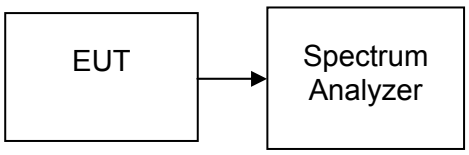
7.6.3. TEST PROCEDURES (please refer to measurement standard)

§15.247(e)specifies a conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the fundamental EBW during any time interval of continuous transmission. The same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e.,if peak-detected fundamental power was measured then use the peak PSD procedure and if average fundamental power was measured then use the average PSD procedure).

10.2 Method PKPSD (peak PSD)

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤RBW ≤100 kHz.
4. Set the VBW ≥ 3 ×RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.6.4. TEST SETUP



7.6.5. TEST RESULTS

No non-compliance noted

Test Data

Antenna 0

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-6.31	8	PASS
Mid	2437	-6.18		PASS
High	2462	-6.57		PASS

Antenna 0

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-8.83	8	PASS
Mid	2437	-8.74		PASS
High	2462	-8.35		PASS

Antenna 1

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-8.98	8	PASS
Mid	2437	-9.48		PASS
High	2462	-10.62		PASS

Test mode: IEEE 802.11n HT20 MHz(Combine with Antenna 0 and Anteena 1)

Channel	Frequency (MHz)	PPSD (dBm)		PPSD Total (dBm)	Limit (W)	Result
		Chain 1	Chain 2			
Low	2422	-11.36	-13.56	-9.31	8	PASS
Mid	2437	-12.40	-14.68	-10.38		PASS
High	2452	-11.15	-14.52	-9.51		PASS

Test mode: IEEE 802.11n HT40 MHz(Combine with Antenna 0 and Anteena 1)

Channel	Frequency (MHz)	PPSD (dBm)		PPSD Total (dBm)	Limit (W)	Result
		Chain 1	Chain 2			
Low	2422	-14.81	-16.86	-12.70	8	PASS
Mid	2437	-14.48	-17.09	-12.58		PASS
High	2452	-13.17	-16.59	-11.54		PASS

Note : Combine Power Calculation :

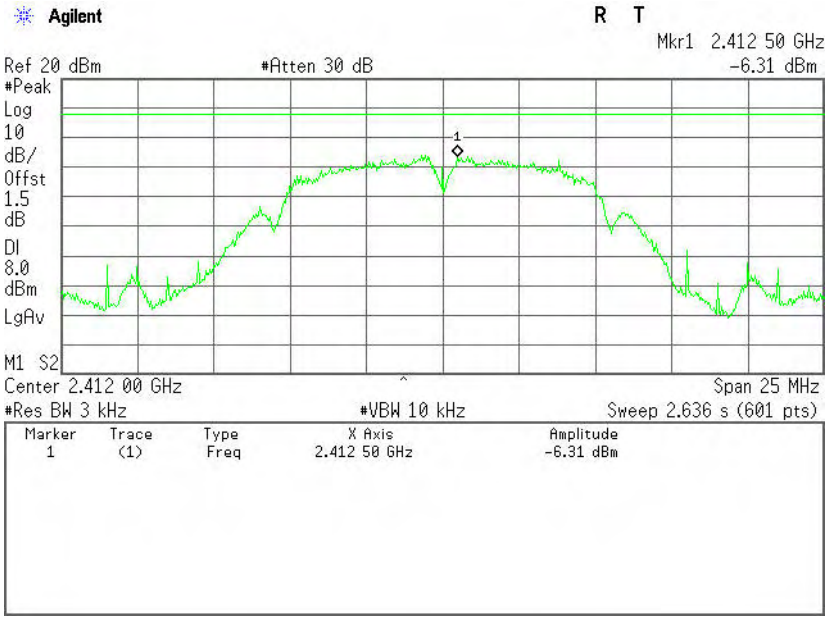
Total PPSD(dBm) =log (10 $^{\text{(chain 0 PPSD/10)}}$+10 $^{\text{(chain 1 PPSD/10)}}$)*10

Test Plot

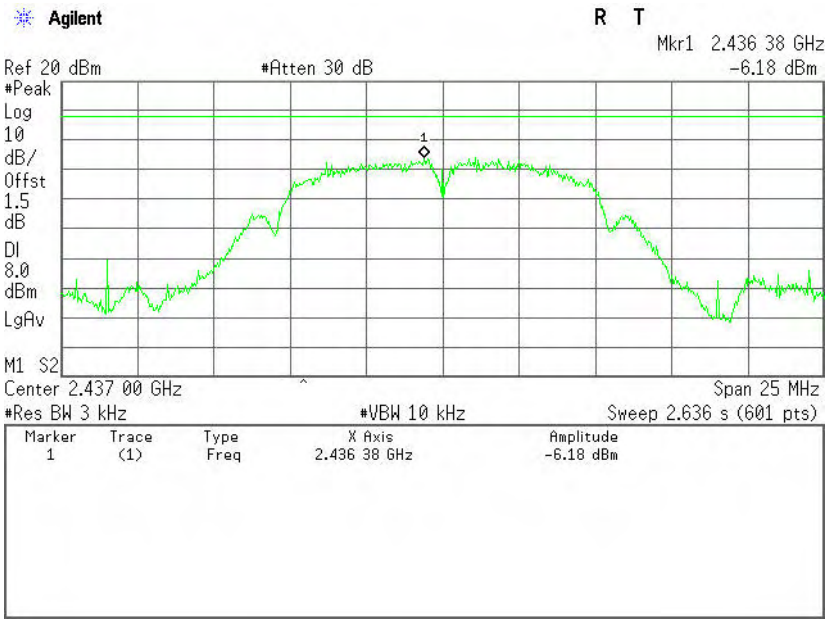
Antenna 0

IEEE 802.11b mode

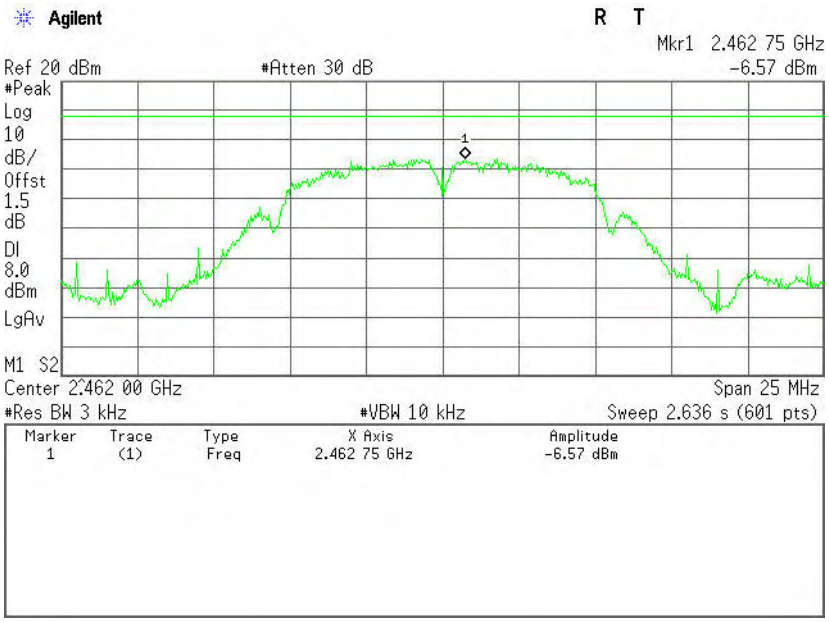
PPSD (CH Low)



PPSD (CH Mid)



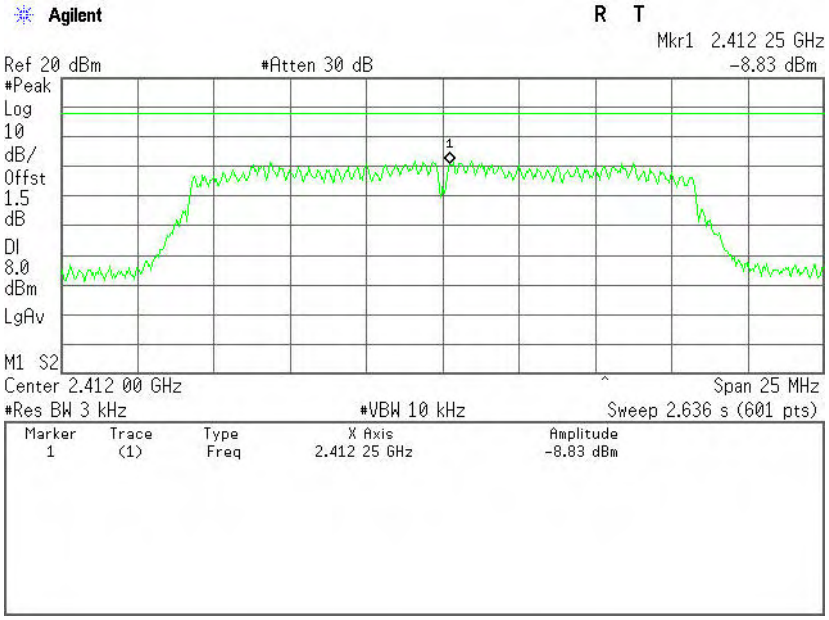
PPSD (CH High)



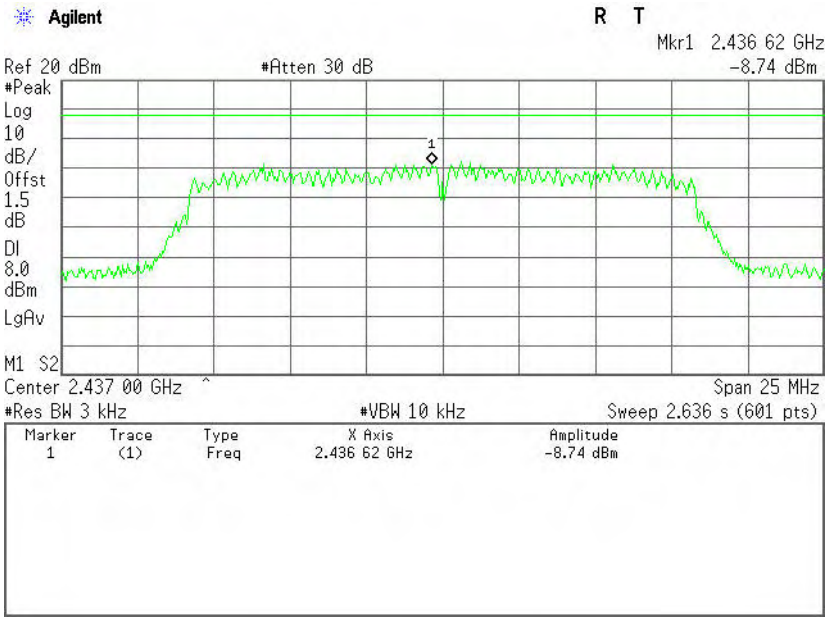
Antenna 0

IEEE 802.11g mode

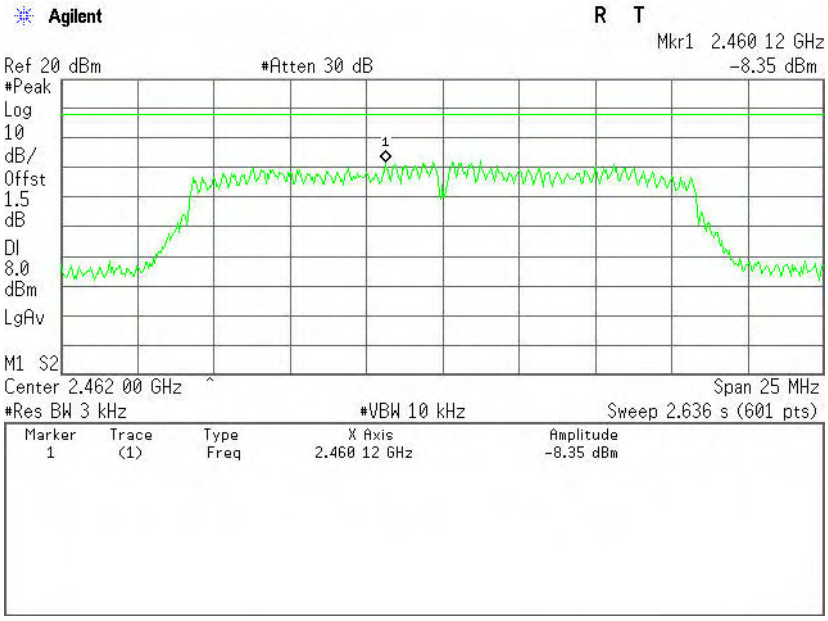
PPSD (CH Low)



PPSD (CH Mid)



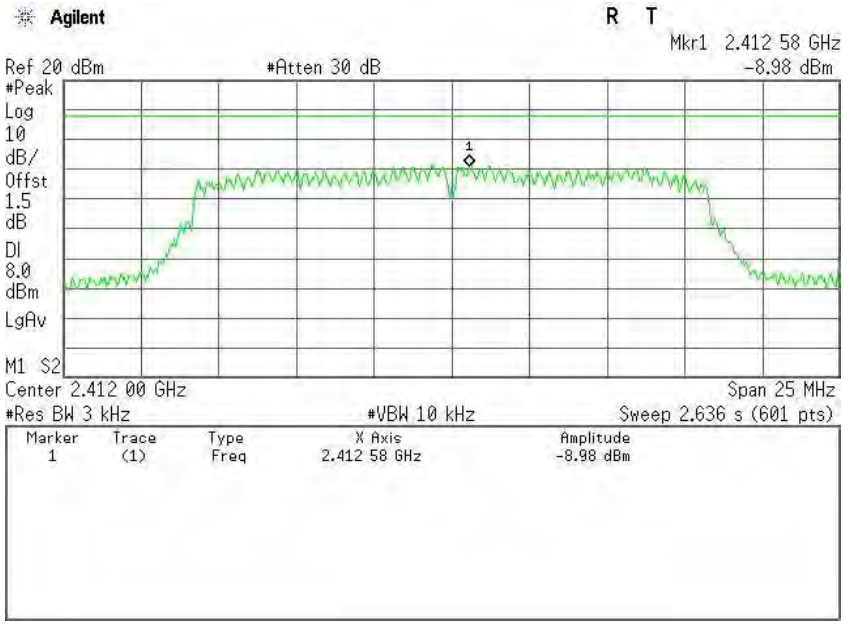
PPSD (CH High)



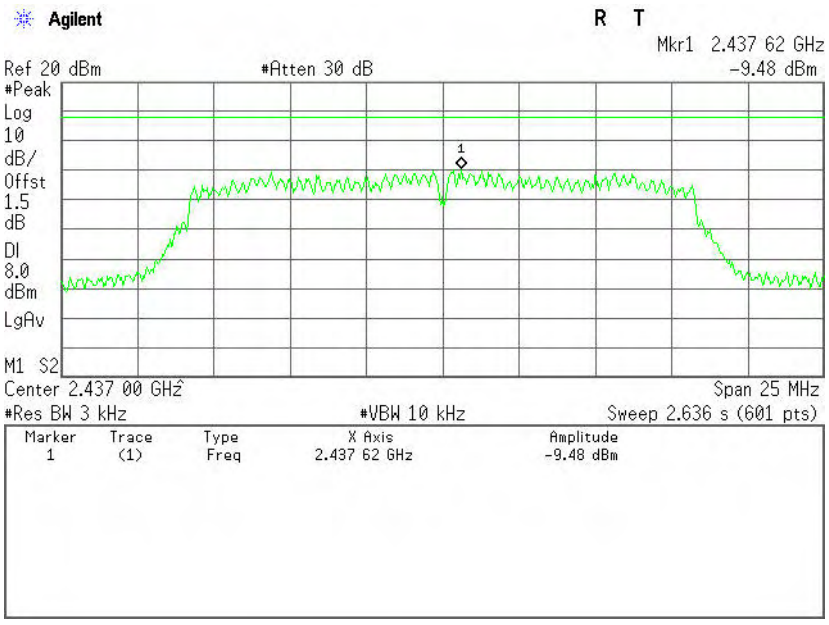
Antenna 1

IEEE 802.11g mode

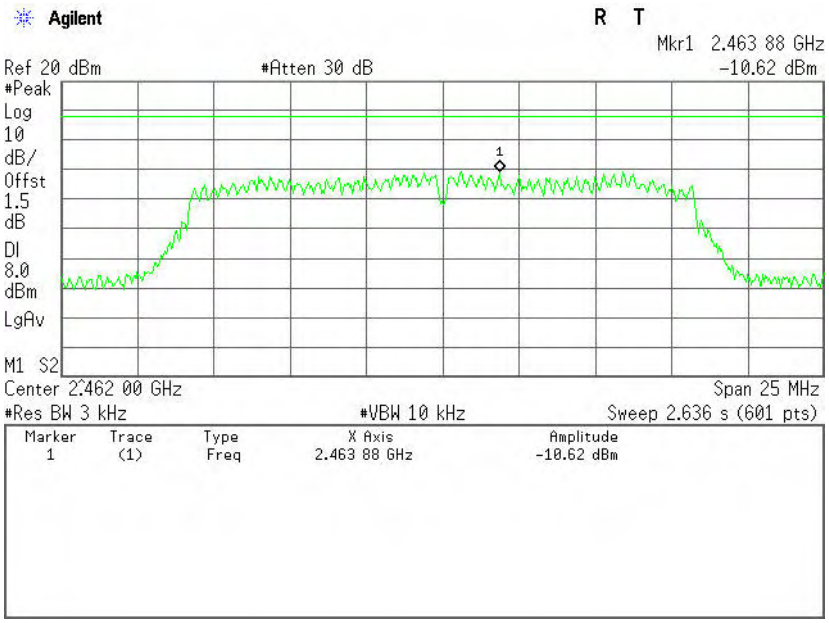
PPSD (CH Low)



PPSD (CH Mid)



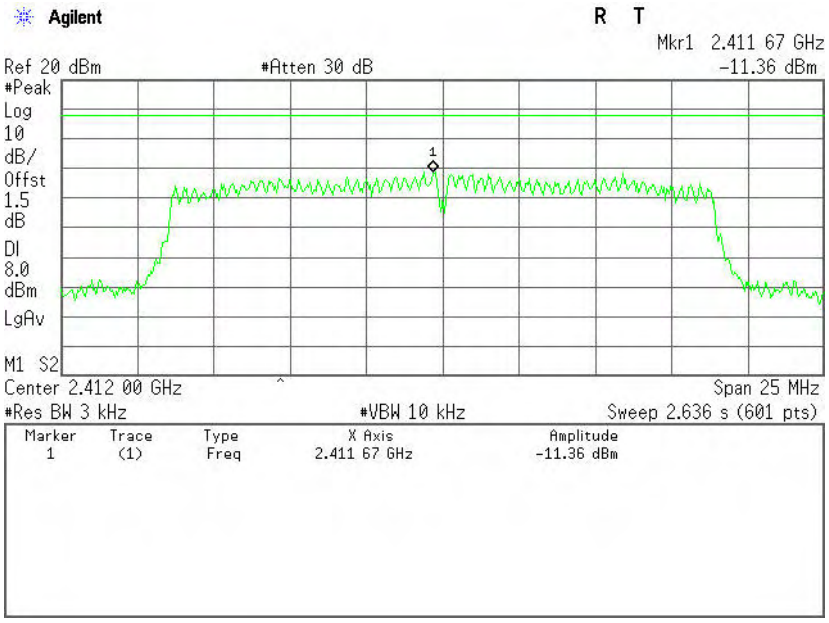
PPSD (CH High)



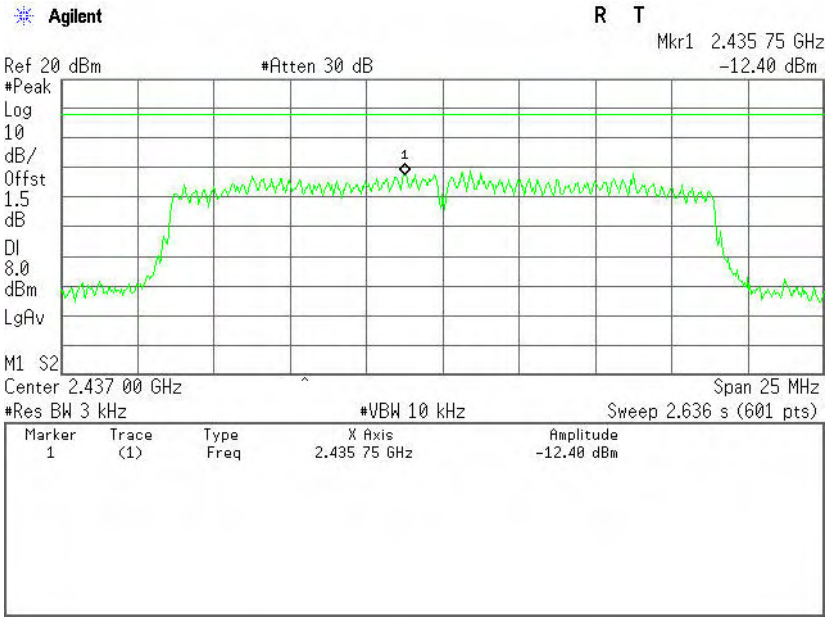
Antenna 0

IEEE 802.11n HT20 MHz mode

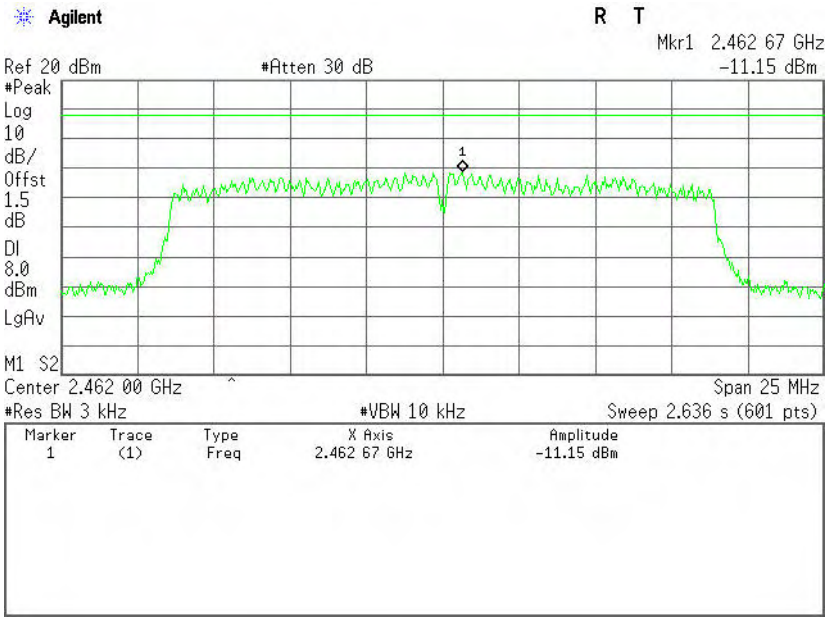
PPSD (CH Low)



PPSD (CH Mid)



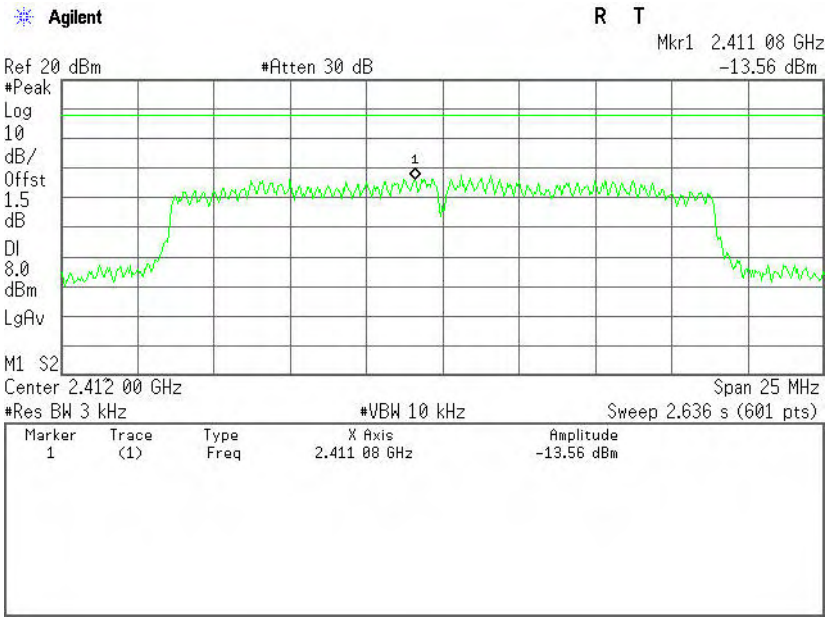
PPSD (CH High)



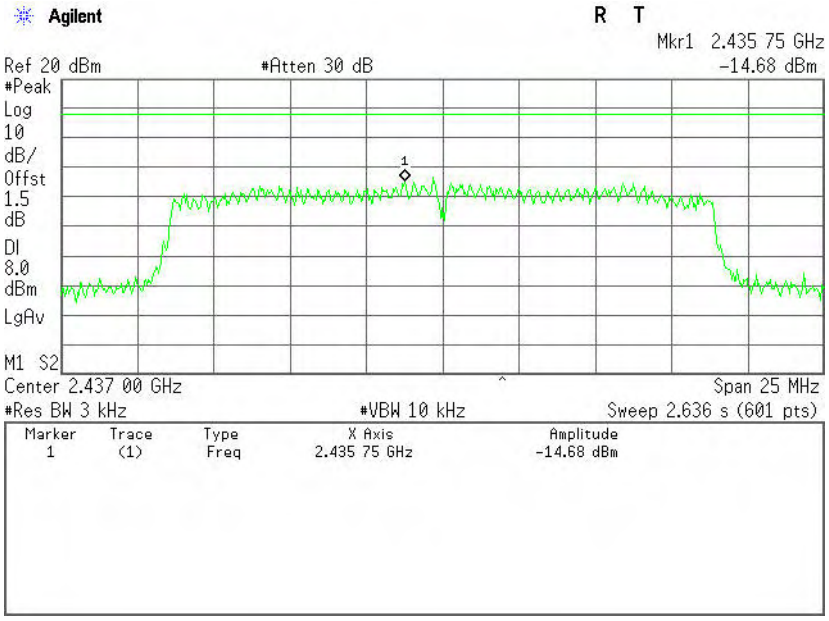
Antenna 1

IEEE 802.11n HT20 MHz mode

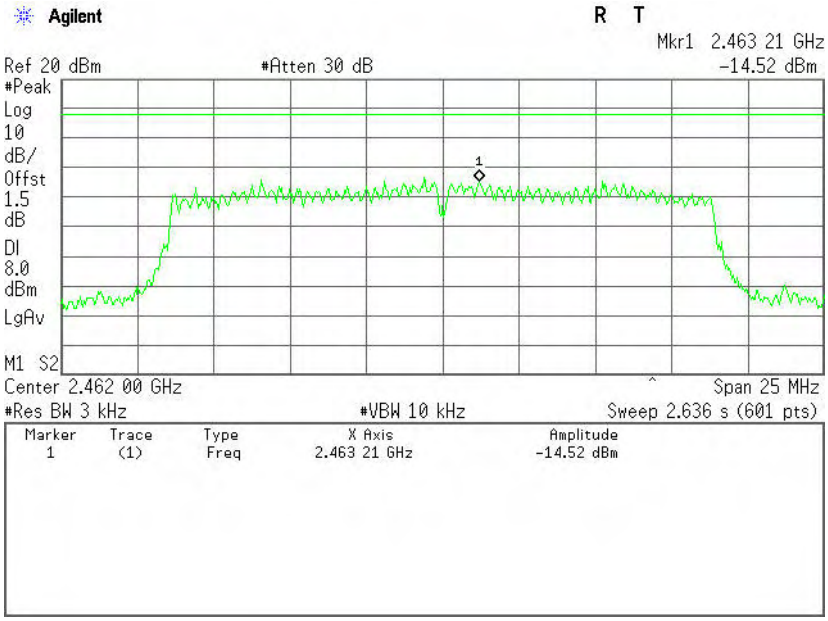
PPSD (CH Low)



PPSD (CH Mid)



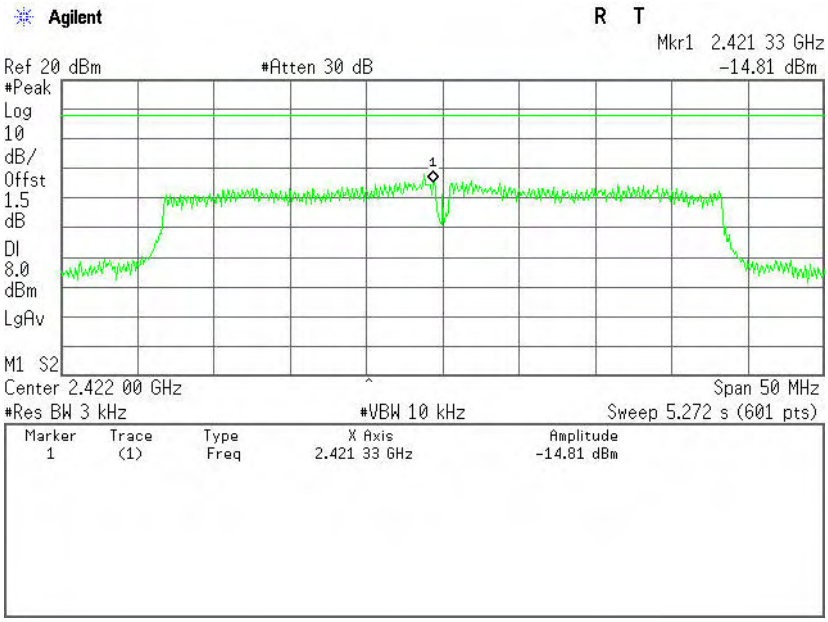
PPSD (CH High)



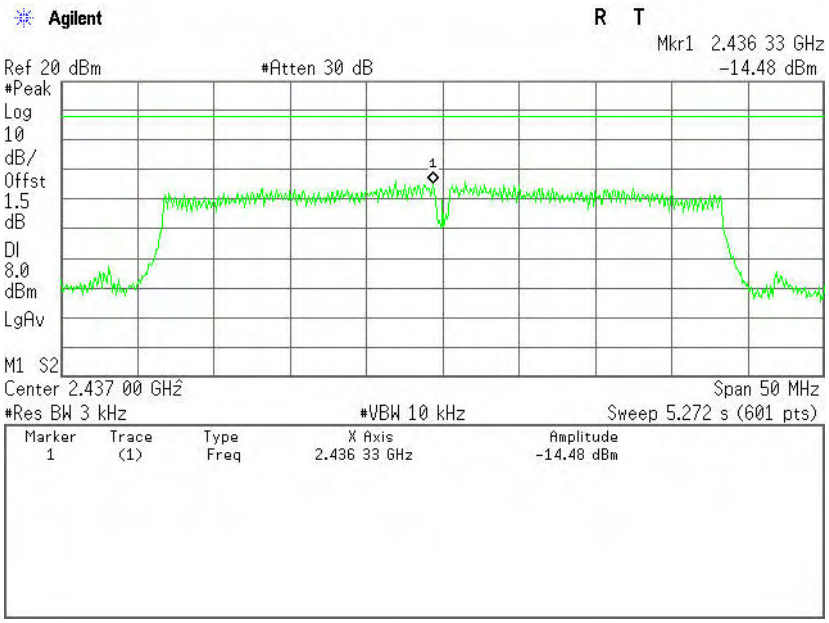
Antenna 0

IEEE 802.11n HT40 MHz mode

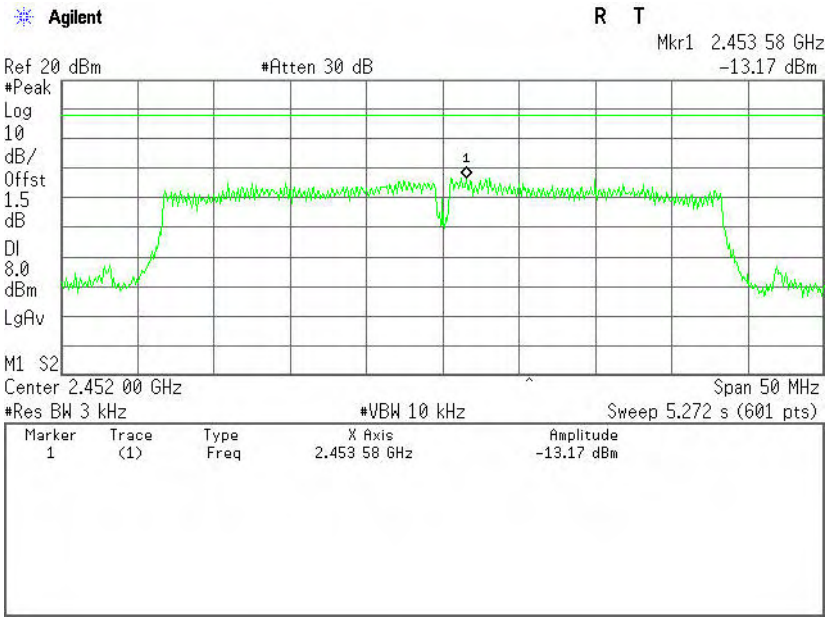
PPSD (CH Low)



PPSD (CH Mid)



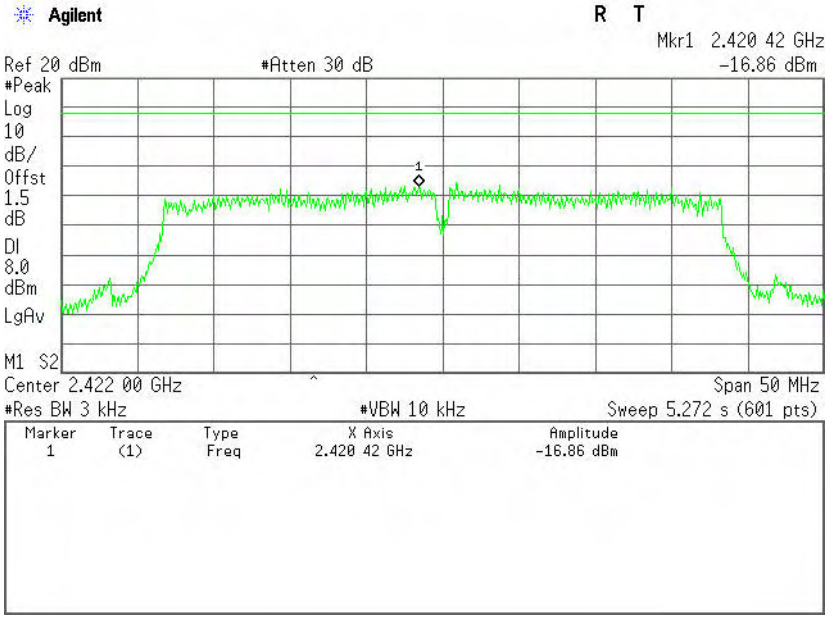
PPSD (CH High)



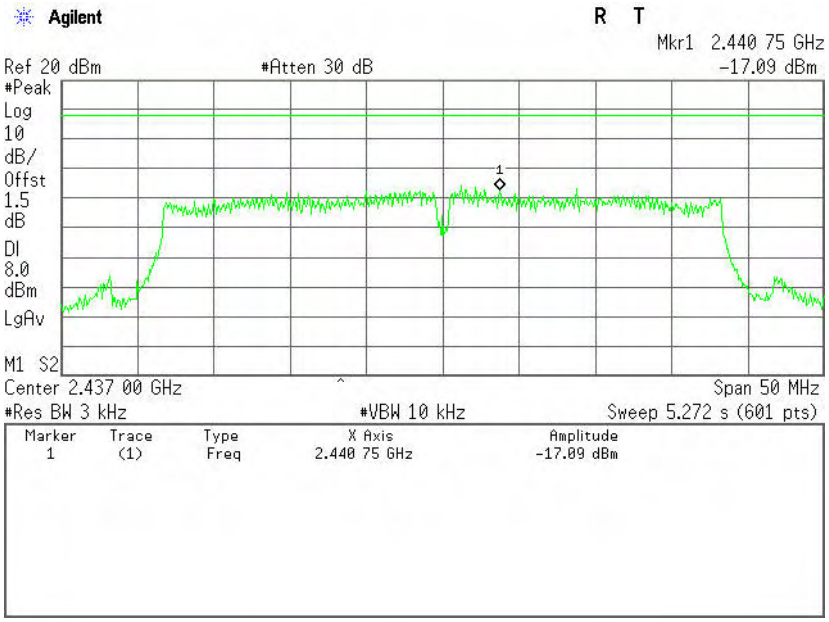
Antenna 1

IEEE 802.11n HT40 MHz mode

PPSD (CH Low)



PPSD (CH Mid)



PPSD (CH High)