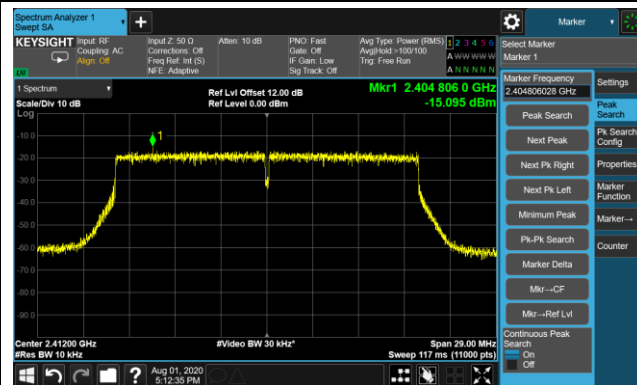
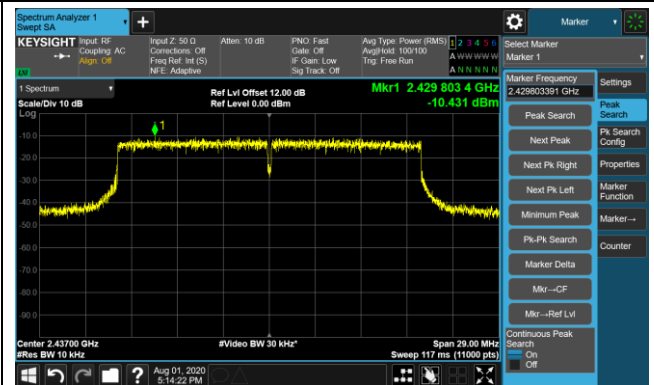


802.11ax-HE20 AVGPSD - Ant 1 / Ant 0 + 1 – Beamforming Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

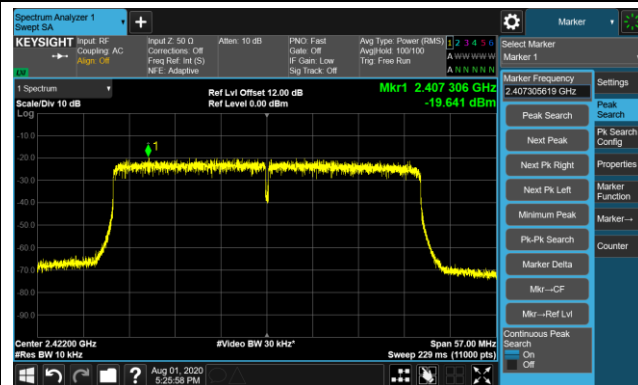


Channel 11 (2462MHz)

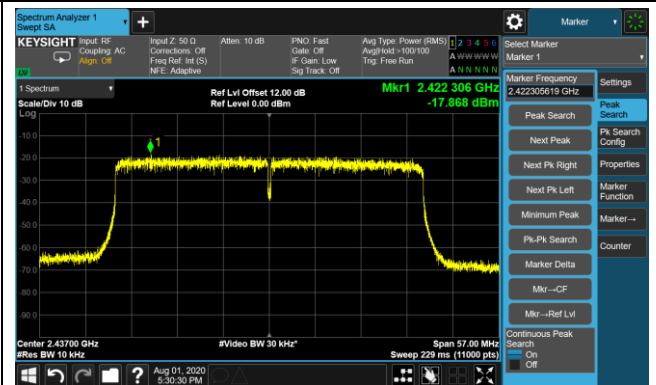


802.11ax-HE40 AVGPSD - Ant 1 / Ant 0 + 1 – Beamforming Mode

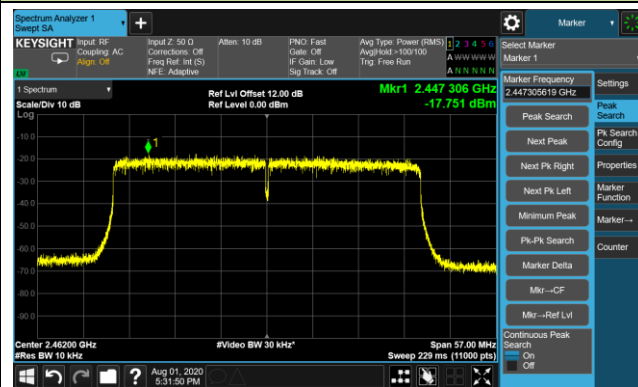
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11

7.5.3. Test Setting

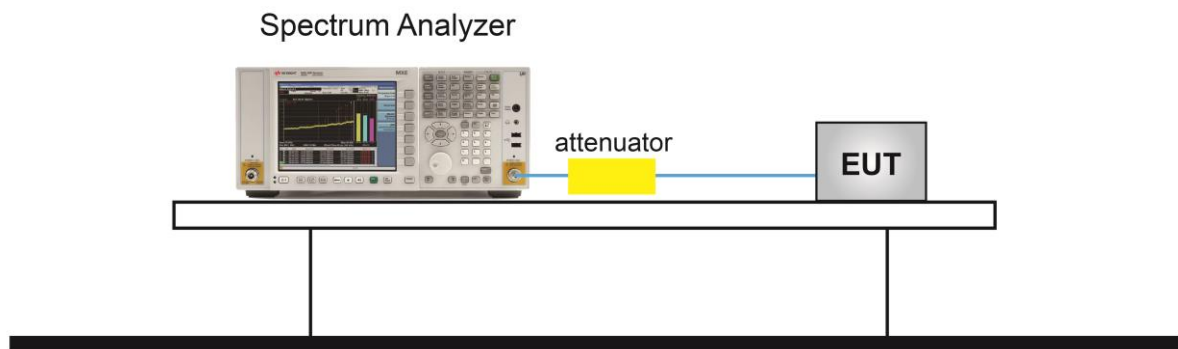
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100KHz
3. VBW = 300KHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

7.5.4. Test Setup



7.5.5. Test Result

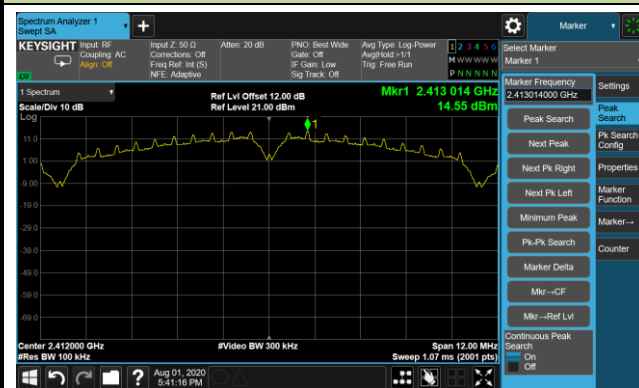
Product	AX1800 Wi-Fi 6 Range Extender	Temperature	23 ~ 25°C
Test Engineer	Kevin Ker	Relative Humidity	46 ~ 54%
Test Site	SR1	Test Date	2020/07/09 ~ 2020/08/08

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
CDD Mode					
802.11b	1Mbps	01	2412	≤ 30	Pass
802.11b	1Mbps	06	2437	≤ 30	Pass
802.11b	1Mbps	11	2462	≤ 30	Pass
802.11g	6Mbps	01	2412	≤ 30	Pass
802.11g	6Mbps	06	2437	≤ 30	Pass
802.11g	6Mbps	11	2462	≤ 30	Pass
802.11n-HT20	MCS0	01	2412	≤ 30	Pass
802.11n-HT20	MCS0	06	2437	≤ 30	Pass
802.11n-HT20	MCS0	11	2462	≤ 30	Pass
802.11n-HT40	MCS0	03	2422	≤ 30	Pass
802.11n-HT40	MCS0	06	2437	≤ 30	Pass
802.11n-HT40	MCS0	09	2452	≤ 30	Pass
802.11ax-HE20	MCS0	01	2412	≤ 30	Pass
802.11ax-HE20	MCS0	06	2437	≤ 30	Pass
802.11ax-HE20	MCS0	11	2462	≤ 30	Pass
802.11ax-HE40	MCS0	03	2422	≤ 30	Pass
802.11ax-HE40	MCS0	06	2437	≤ 30	Pass
802.11ax-HE40	MCS0	09	2452	≤ 30	Pass
Beamforming Mode					
802.11ax-HE20	MCS0	01	2412	≤ 30	Pass
802.11ax-HE20	MCS0	06	2437	≤ 30	Pass
802.11ax-HE20	MCS0	11	2462	≤ 30	Pass
802.11ax-HE40	MCS0	03	2422	≤ 30	Pass
802.11ax-HE40	MCS0	06	2437	≤ 30	Pass
802.11ax-HE40	MCS0	09	2452	≤ 30	Pass

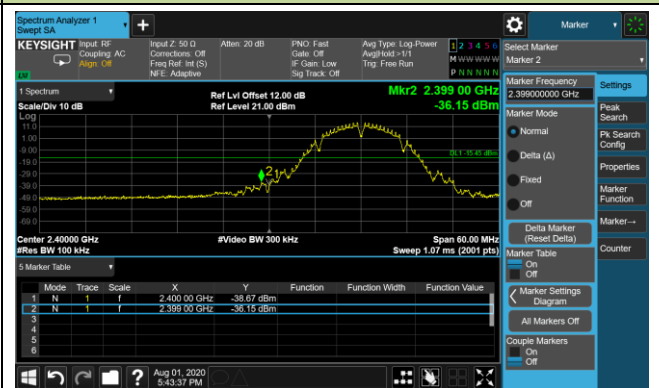
802.11b Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 01 (2412MHz)

100kHz PSD reference Level



Low Band Edge

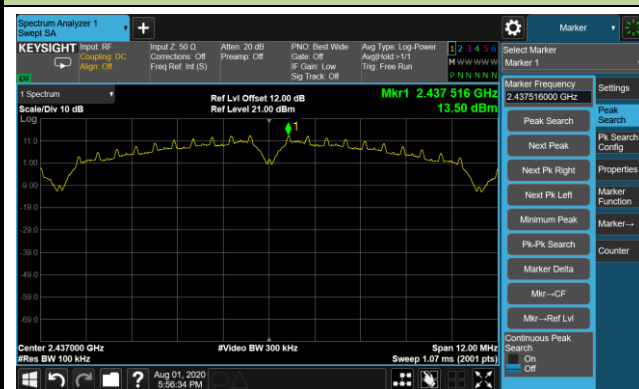


Spurious Emission

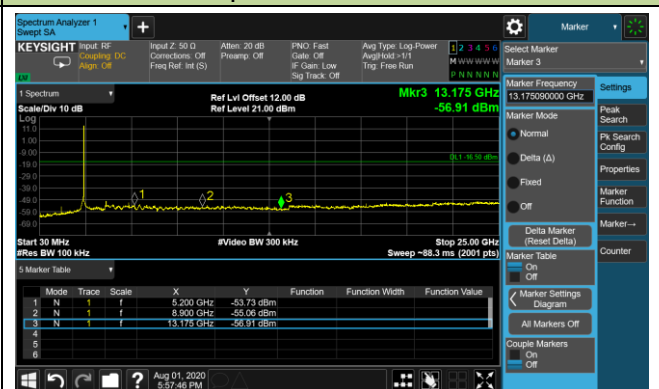


Channel 06 (2437MHz)

100kHz PSD reference Level



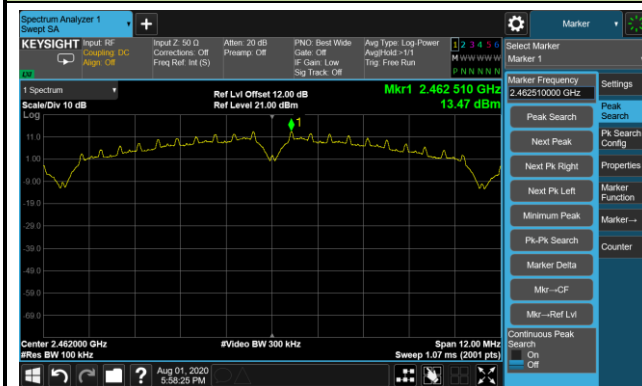
Spurious Emission



802.11b Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 11 (2462MHz)

100kHz PSD reference Level



High Band Edge



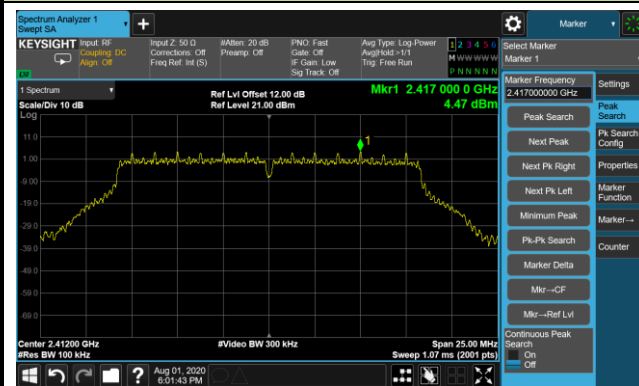
Spurious Emission



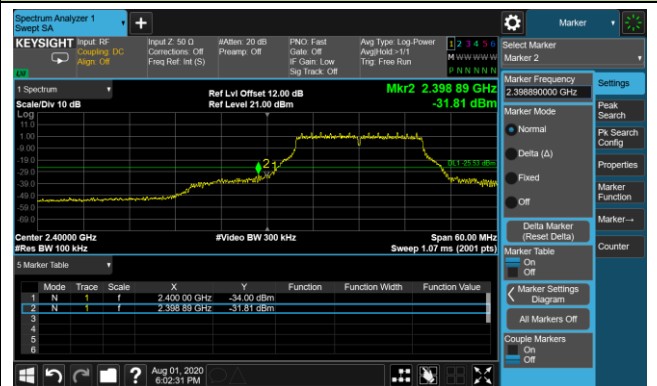
802.11g Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 01 (2412MHz)

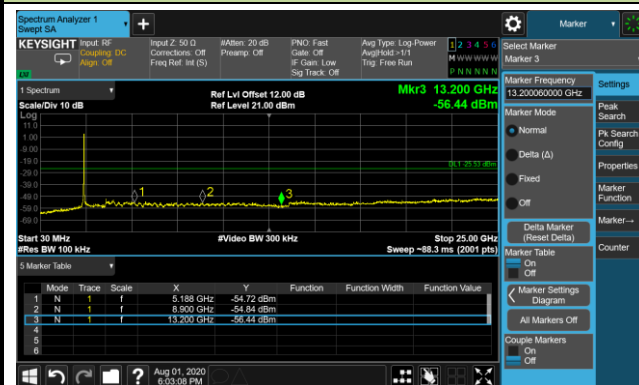
100kHz PSD reference Level



Low Band Edge



Spurious Emission



Channel 06 (2437MHz)

100kHz PSD reference Level



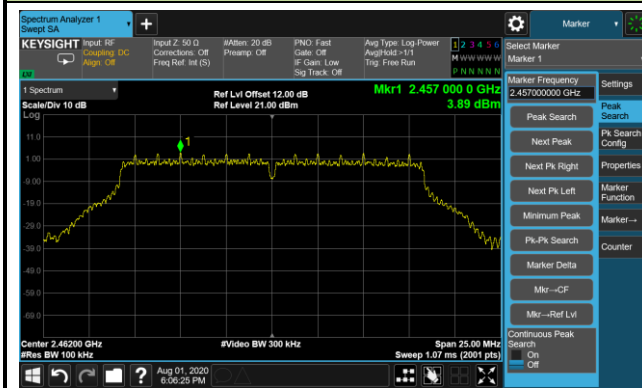
Spurious Emission



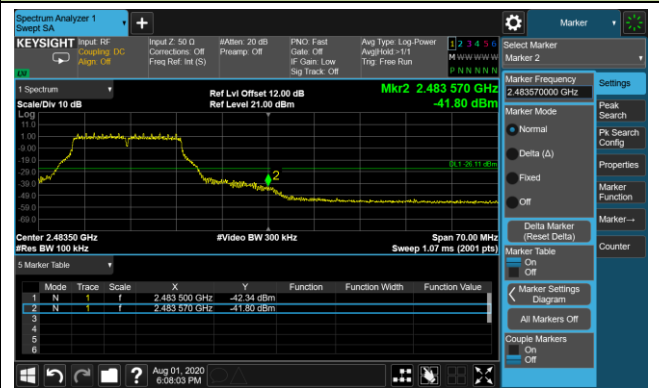
802.11g Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 11 (2462MHz)

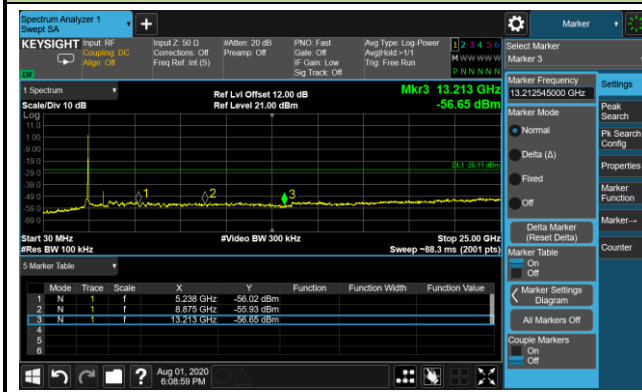
100kHz PSD reference Level



High Band Edge



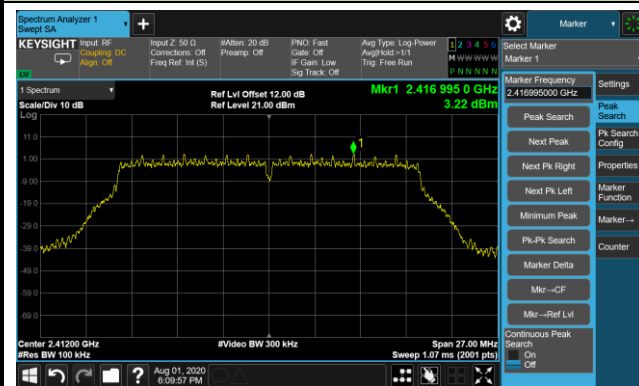
Spurious Emission



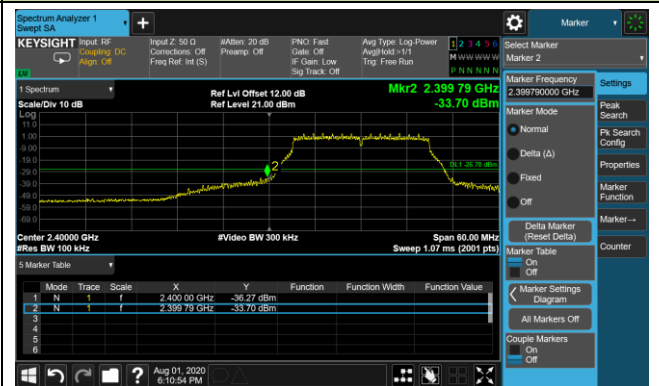
802.11n-HT20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 01 (2412MHz)

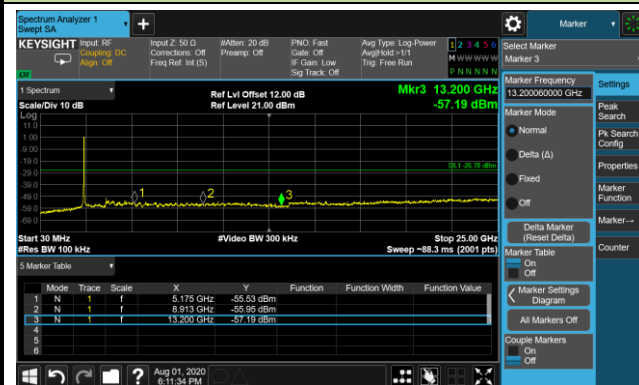
100kHz PSD reference Level



Low Band Edge



Spurious Emission

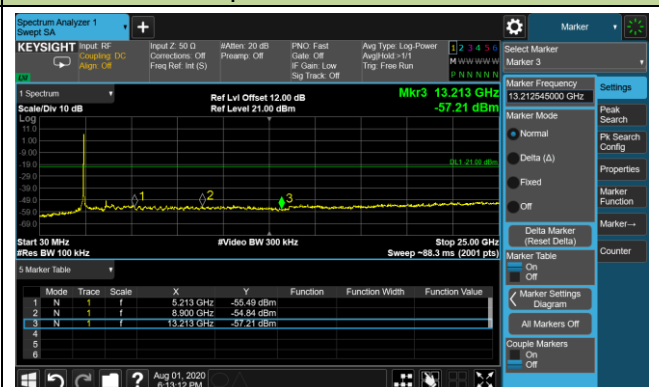


Channel 06 (2437MHz)

100kHz PSD reference Level



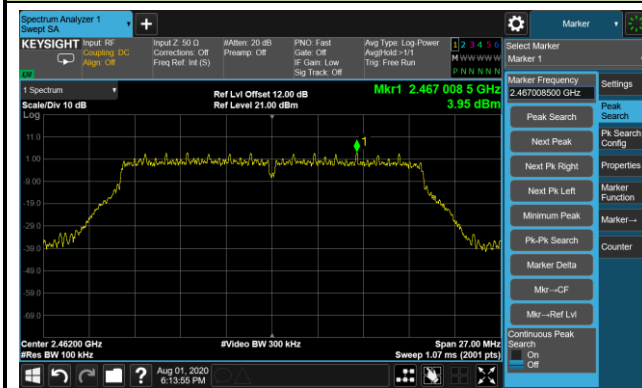
Spurious Emission



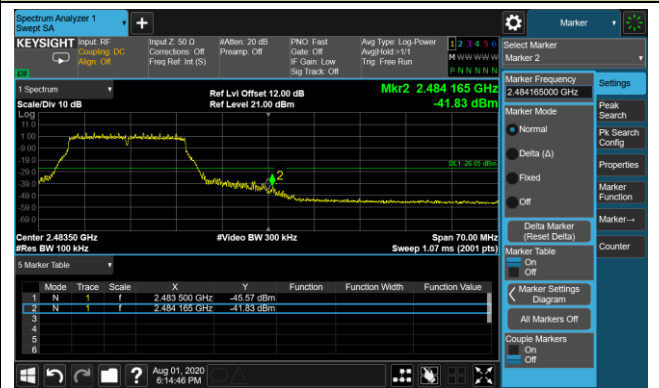
802.11 n-HT20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 11 (2462MHz)

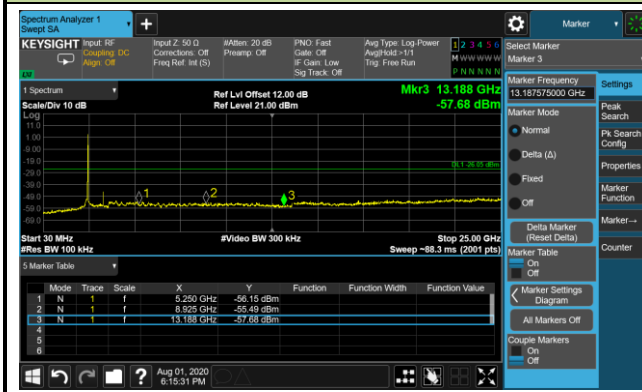
100kHz PSD reference Level



High Band Edge



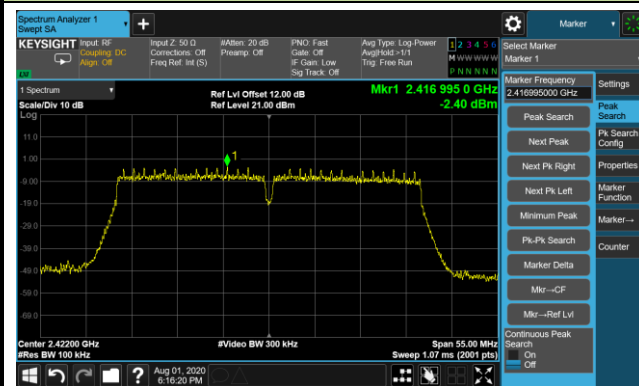
Spurious Emission



802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 03 (2422MHz)

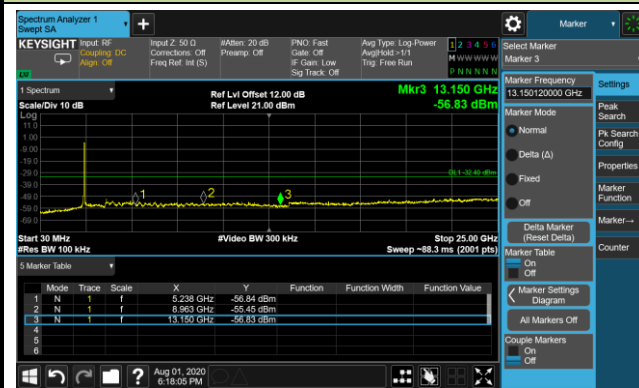
100kHz PSD reference Level



Low Band Edge

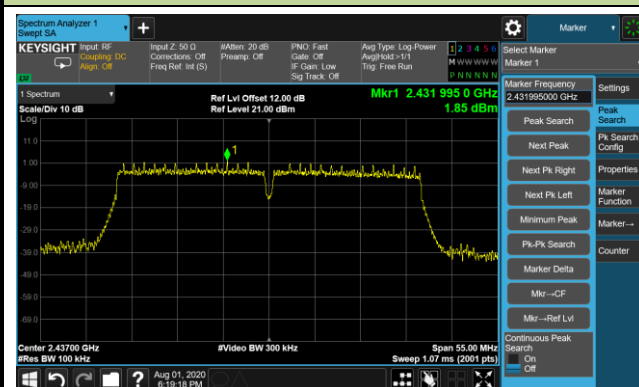


Spurious Emission

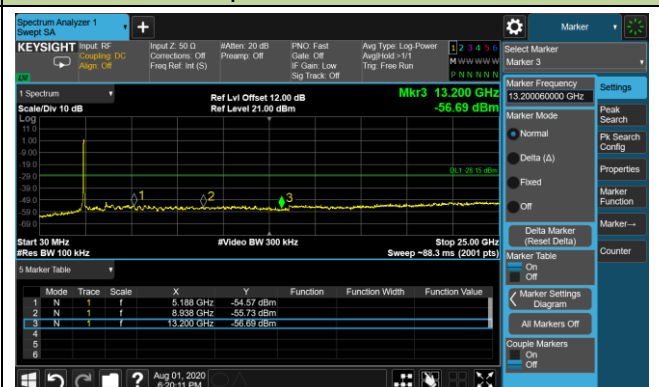


Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



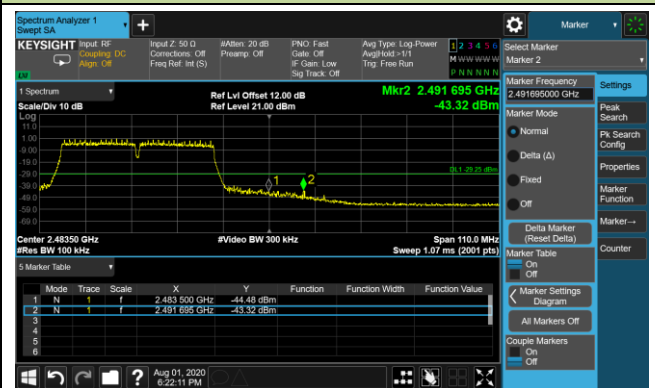
802.11 n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 09 (2452MHz)

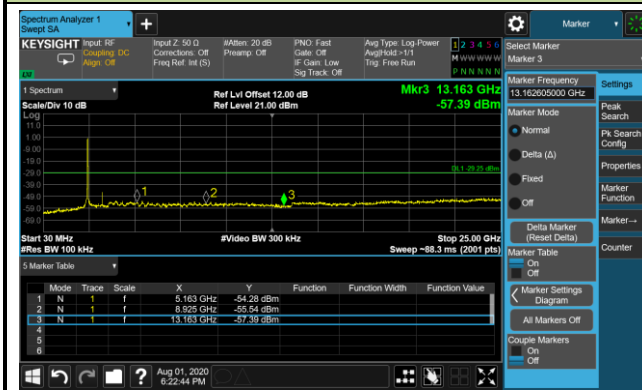
100kHz PSD reference Level



High Band Edge



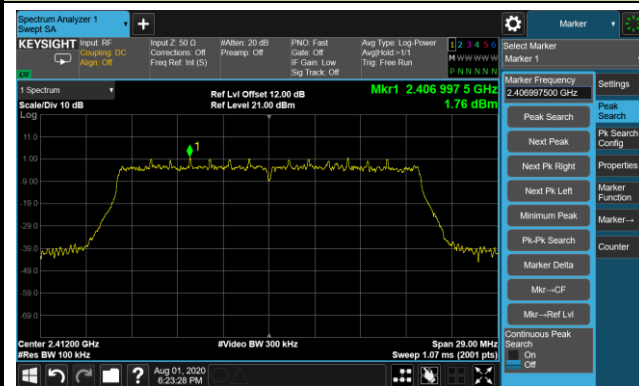
Spurious Emission



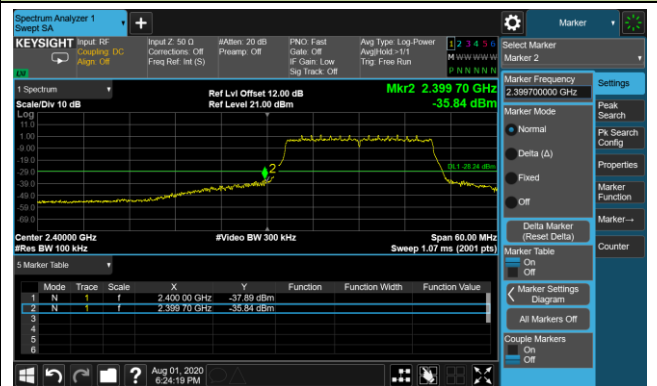
802.11ax-HE20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 01 (2412MHz)

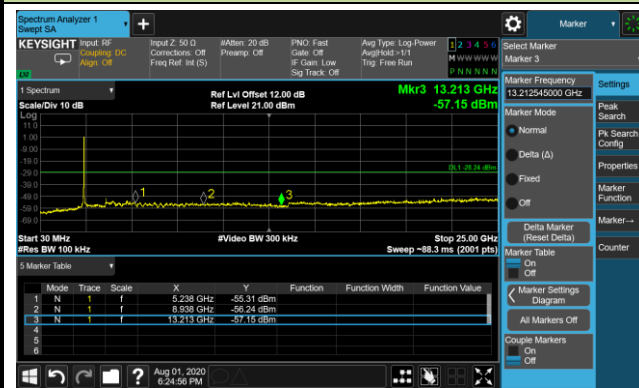
100kHz PSD reference Level



Low Band Edge

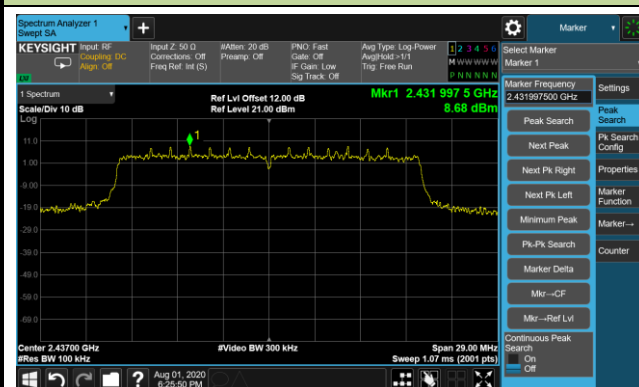


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD reference Level



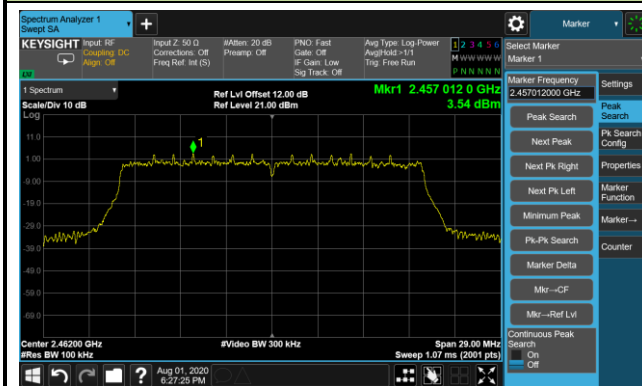
Spurious Emission



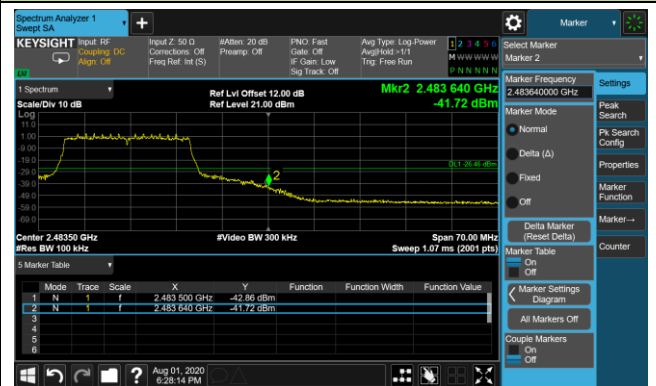
802.11 ax-HE20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 11 (2462MHz)

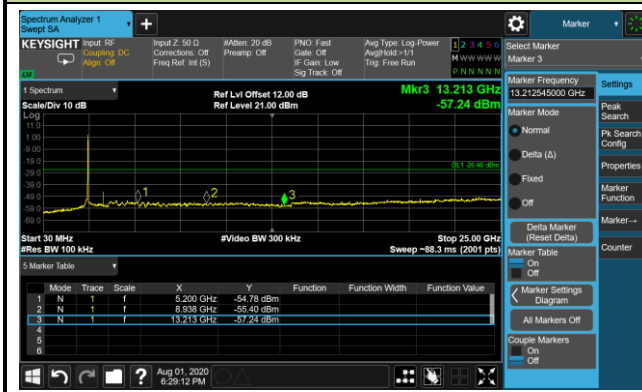
100kHz PSD reference Level



High Band Edge



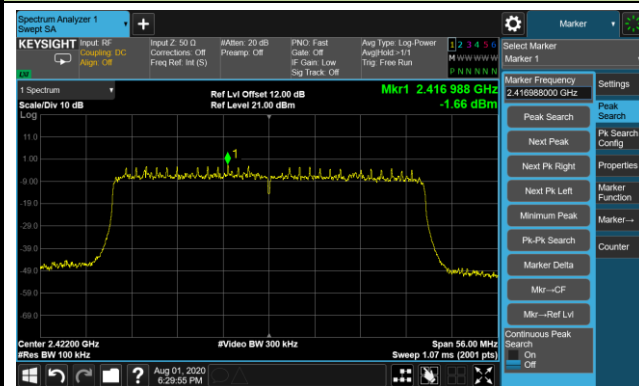
Spurious Emission



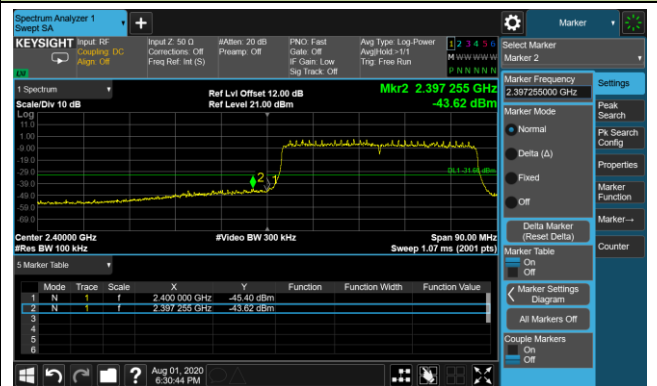
802.11ax-HE40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 03 (2422MHz)

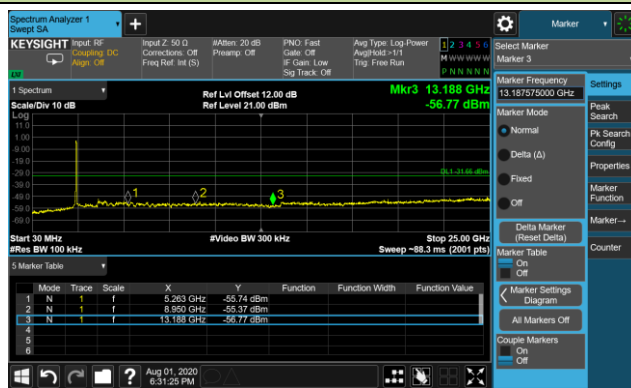
100kHz PSD reference Level



Low Band Edge

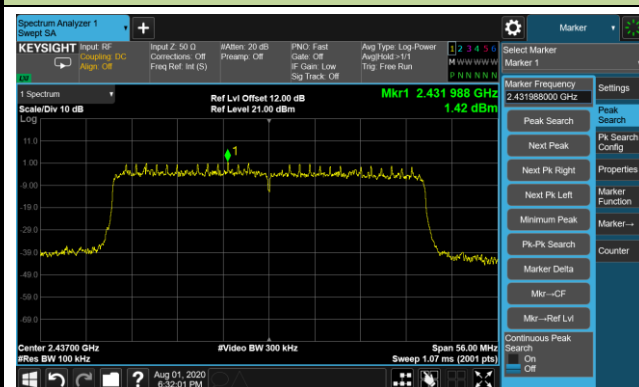


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



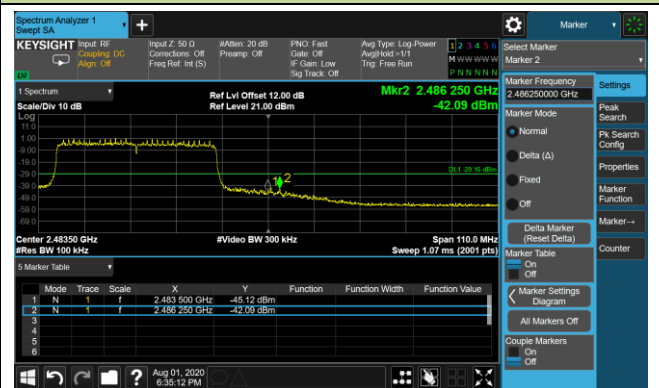
802.11ax-HET40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1 – CDD Mode

Channel 09 (2452MHz)

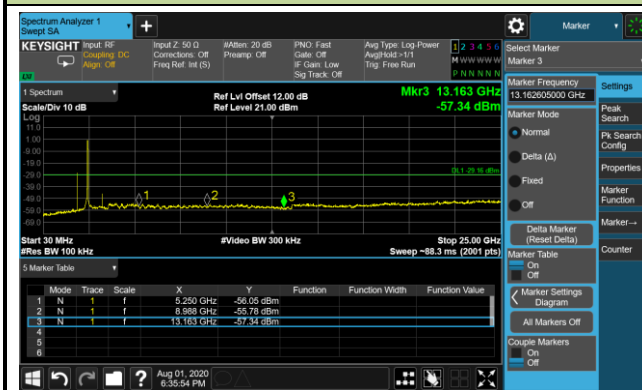
100kHz PSD reference Level



High Band Edge



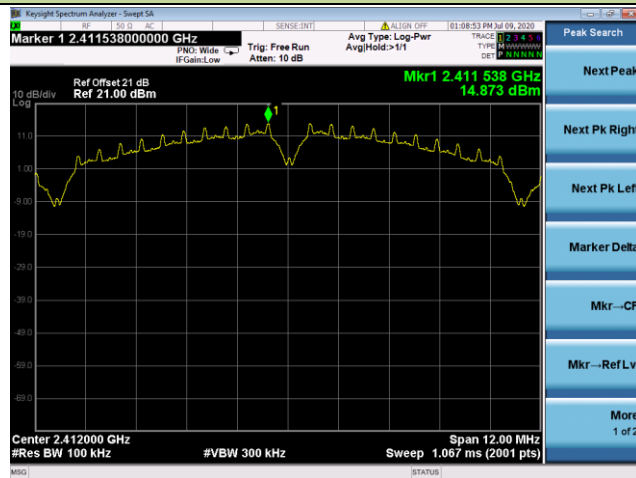
Spurious Emission



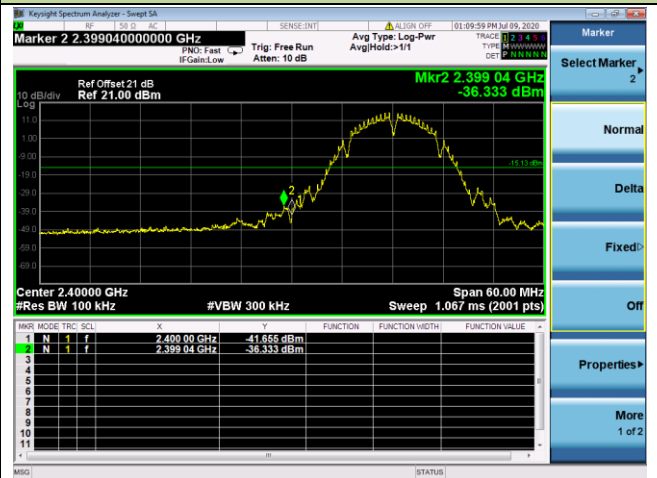
802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1 – CDD Mode

Channel 01 (2412MHz)

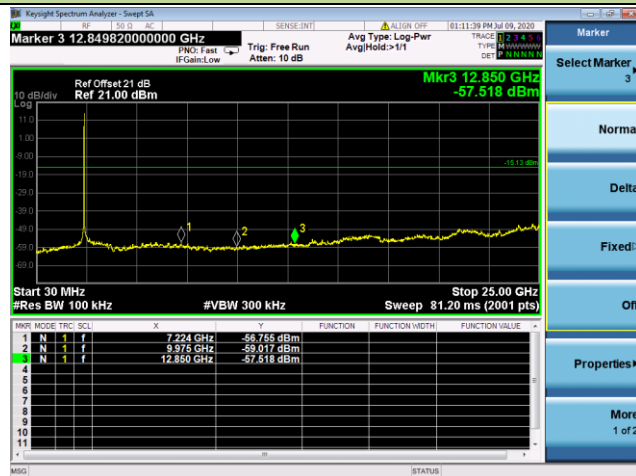
100kHz PSD reference Level



Low Band Edge

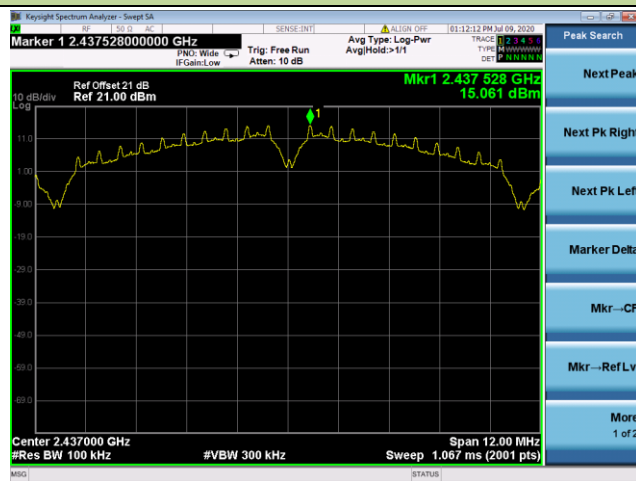


Spurious Emission

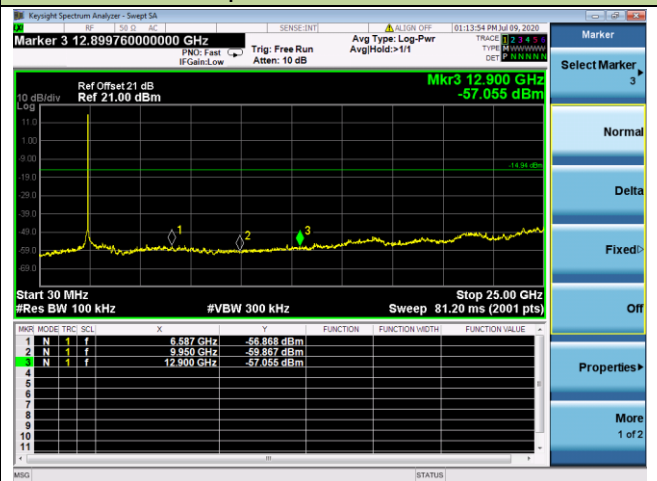


Channel 06 (2437MHz)

100kHz PSD reference Level



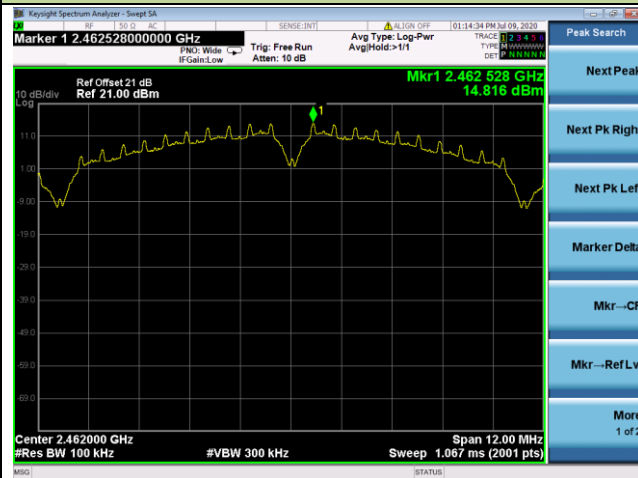
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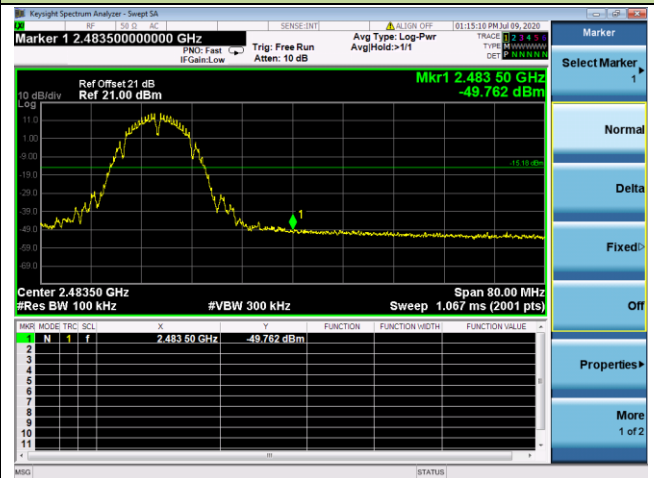
802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1 – CDD Mode

Channel 11 (2462MHz)

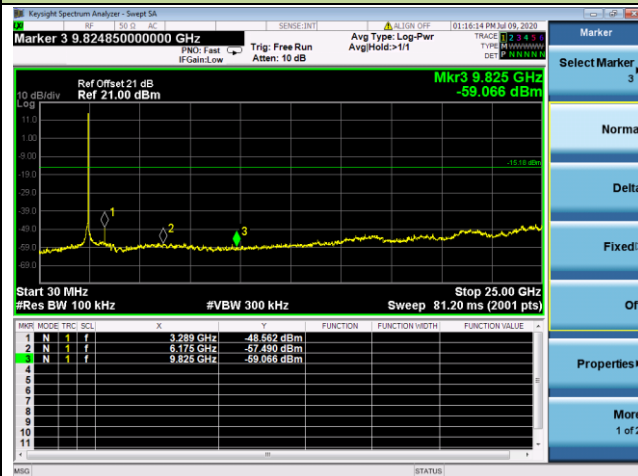
100kHz PSD reference Level



High Band Edge



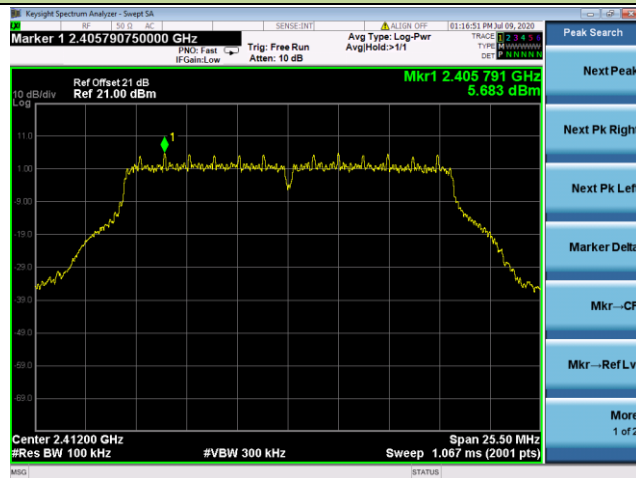
Spurious Emission



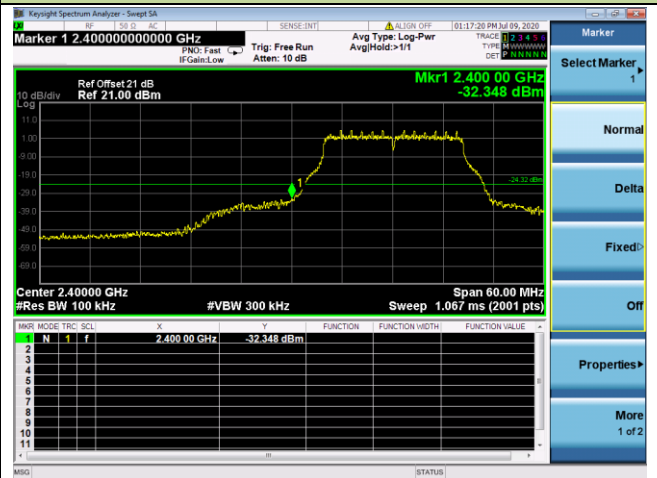
802.11g Out-of-Band Emissions - Ant 1 / Ant 0 + 1 – CDD Mode

Channel 01 (2412MHz)

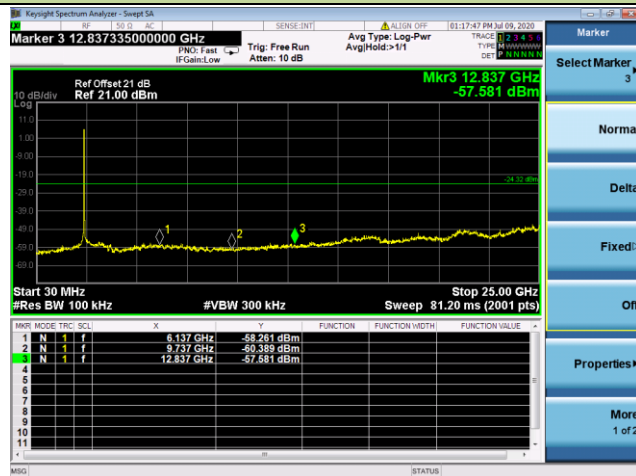
100kHz PSD reference Level



Low Band Edge

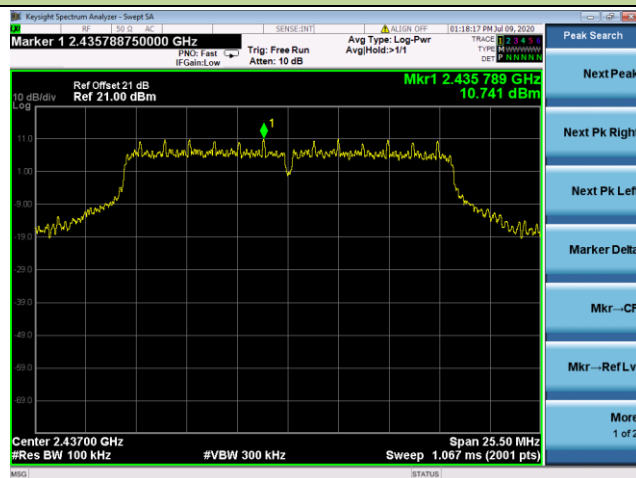


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission

