

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 Section 11.11

7.5.3. Test Setting

Reference level measurement

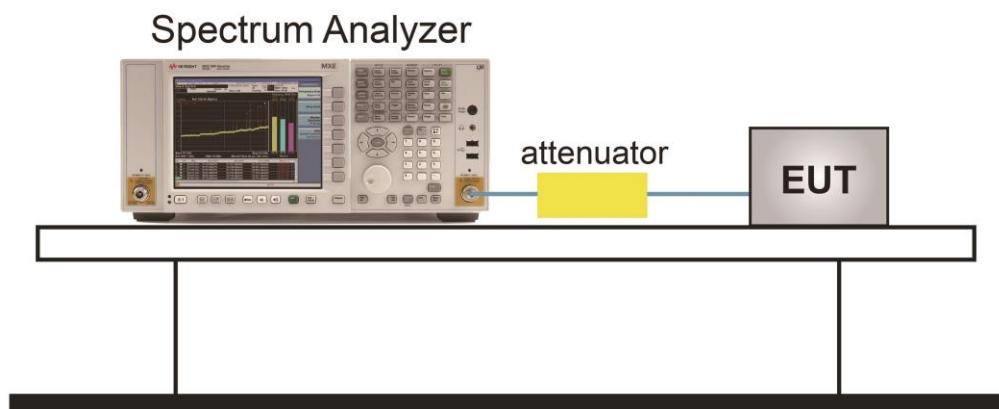
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to \geq 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW \geq 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

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

Test Notes

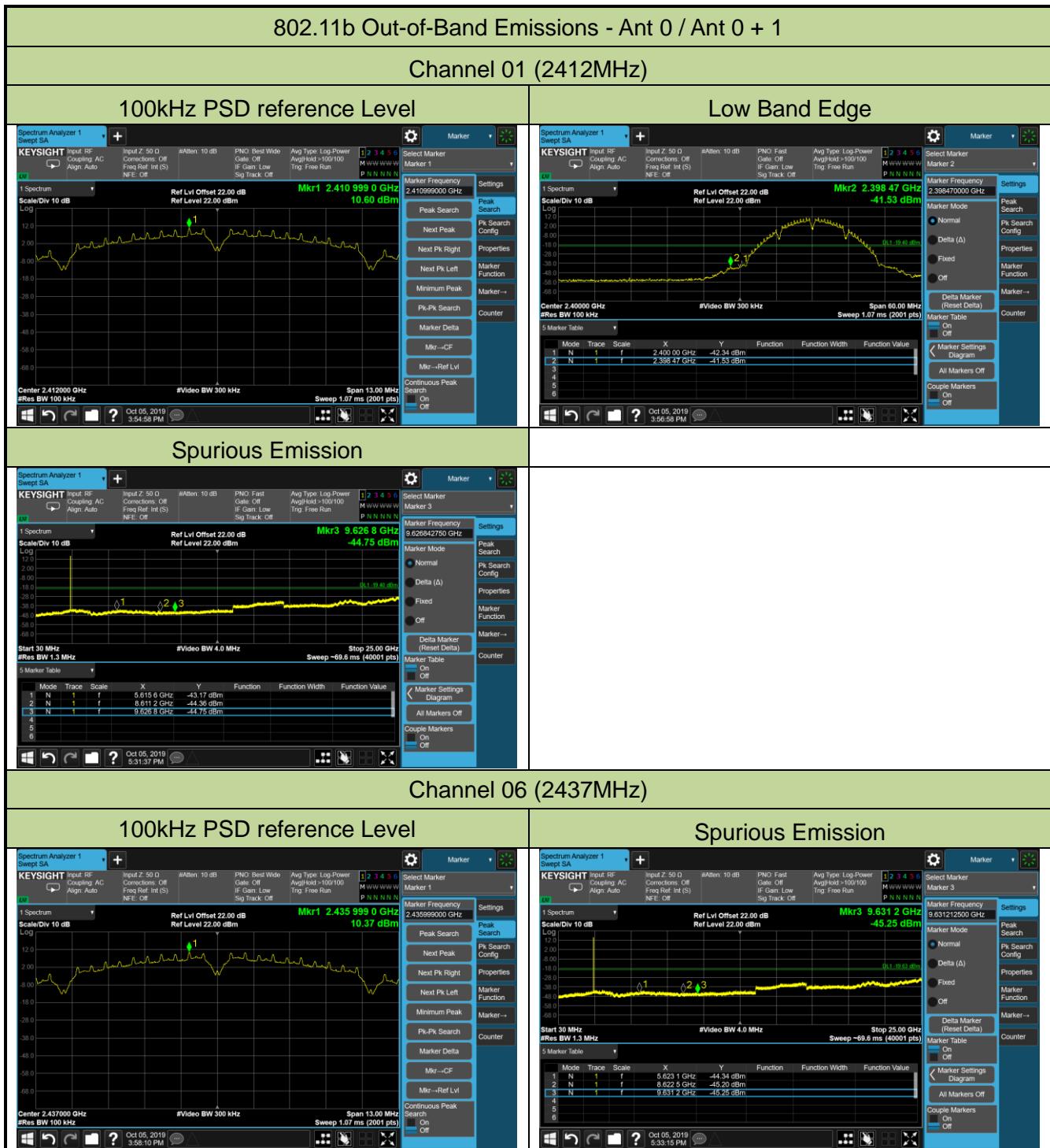
1. RBW was set to 1.3MHz rather than 100KHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100KHz bandwidth. However, since the traces in the following plots are measured with a 1.3MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1.3MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

7.5.4. Test Setup

7.5.5. Test Result

Product	OmniAccess Stellar	Temperature	23°C
Test Engineer	Andy Zhu	Relative Humidity	54%
Test Site	TR3	Test Date	2019/10/05
Configuration	OAW-AP1321		

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
Ant 0 / Ant 0 + 1					
11b	1Mbps	01	2412	30dBc	Pass
11b	1Mbps	06	2437	30dBc	Pass
11b	1Mbps	11	2462	30dBc	Pass
11g	6Mbps	01	2412	30dBc	Pass
11g	6Mbps	06	2437	30dBc	Pass
11g	6Mbps	11	2462	30dBc	Pass
11n-HT20	MCS0	01	2412	30dBc	Pass
11n-HT20	MCS0	06	2437	30dBc	Pass
11n-HT20	MCS0	11	2462	30dBc	Pass
11n-HT40	MCS0	03	2422	30dBc	Pass
11n-HT40	MCS0	06	2437	30dBc	Pass
11n-HT40	MCS0	09	2452	30dBc	Pass
11ac-VHT20	MCS0	01	2412	30dBc	Pass
11ac-VHT20	MCS0	06	2437	30dBc	Pass
11ac-VHT20	MCS0	11	2462	30dBc	Pass
11ac-VHT40	MCS0	03	2422	30dBc	Pass
11ac-VHT40	MCS0	06	2437	30dBc	Pass
11ac-VHT40	MCS0	09	2452	30dBc	Pass
11ax-HE20	MCS0	01	2412	30dBc	Pass
11ax-HE20	MCS0	06	2437	30dBc	Pass
11ax-HE20	MCS0	11	2462	30dBc	Pass
11ax-HE40	MCS0	03	2422	30dBc	Pass
11ax-HE40	MCS0	06	2437	30dBc	Pass
11ax-HE40	MCS0	09	2452	30dBc	Pass





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

Channel 01 (2412MHz)



Spurious Emission



Channel 06 (2437MHz)

