8.4 Conducted Spurious Emissions

Test requirements and limit, §15.247(d) & RSS-210 [A8.5]

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If **the peak output power procedure** is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated **by at least 20 dB** relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured inband average PSD level.

In either case, attenuation to levels below the general emission limits specified in **§15.209(a)** is not required.

▣ TEST CONFIGURATION

Refer to the APPENDIX I.

▣ TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer.

- Measurement Procedure 1 – Reference Level

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 ≥ 3 x 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 PSD level

- Measurement Procedure 2 - Unwanted Emissions

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = **100 kHz. (Actual 1 MHz , See below note)**
3. Set the VBW ≥ **3 x RBW. (Actual 3 MHz, See below note)**
4. Detector = **peak**.
5. Ensure that the number of measurement points ≥ span/RBW
6. Sweep time = **auto couple.**
7. Trace mode = **max hold.**
8. **Allow the trace to stabilize** (this may take some time, depending on the extent of the span).
9. Use the peak marker function to determine the maximum amplitude level.

Note : The conducted unwanted emission was tested using S/A's measurement function with total 12 sub ranges. The each sub ranges were set as below.

RBW= 1 MHz, VBW= 3 MHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SPAN = MAX 3 GHz for Below 10 GHz and MAX 5 GHz for Above 10 GHz , BINS = 10001 for Each sub range below 10 GHz and 20001 for Each sub range above 10 GHz

If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 KHz, VBW = 300 KHz, SAPN = 100 MHz and BINS = 2001 to get accurate emission level within 100 KHz BW.

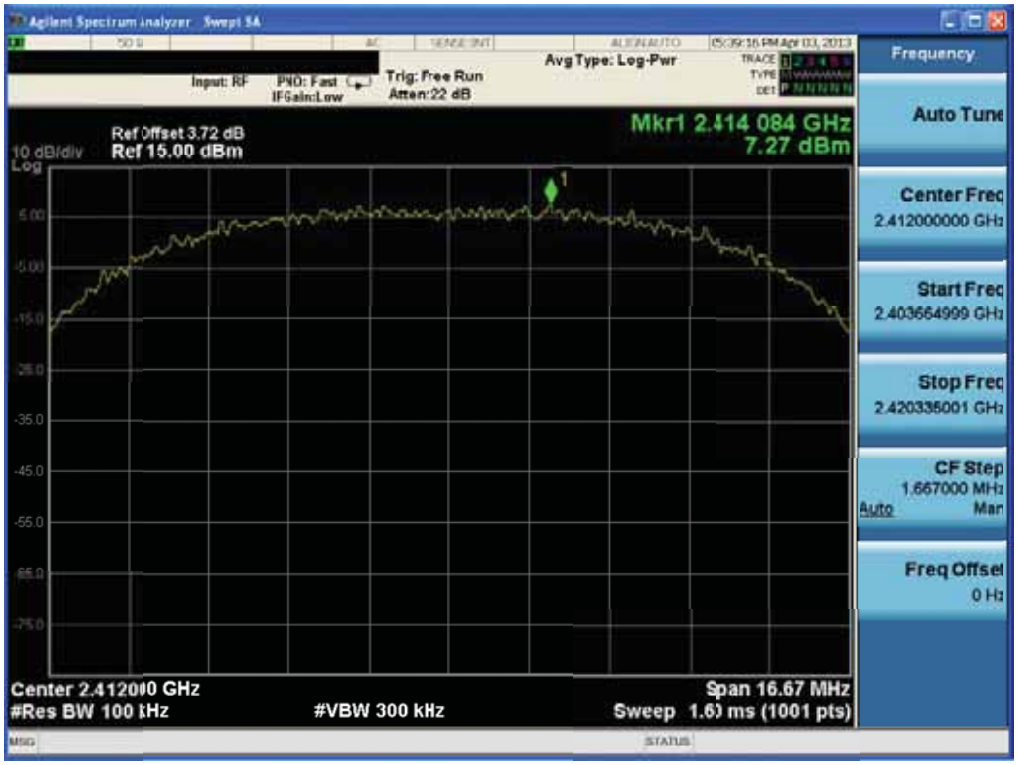
Also the path loss for conducted measurement setup was used as described on the Appendix I of this test report.

▣ TEST RESULTS: Comply

▣ RESULT PLOTS

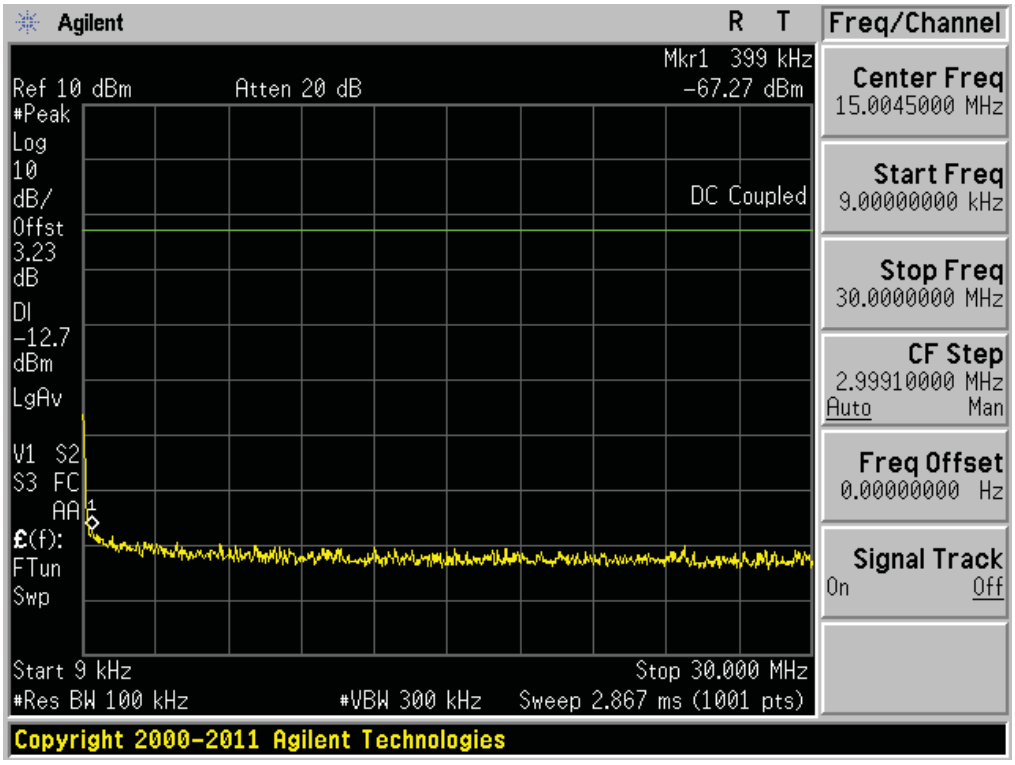
Test Mode: Chain 0 & 802.11b & 11Mbps & 2412MHz

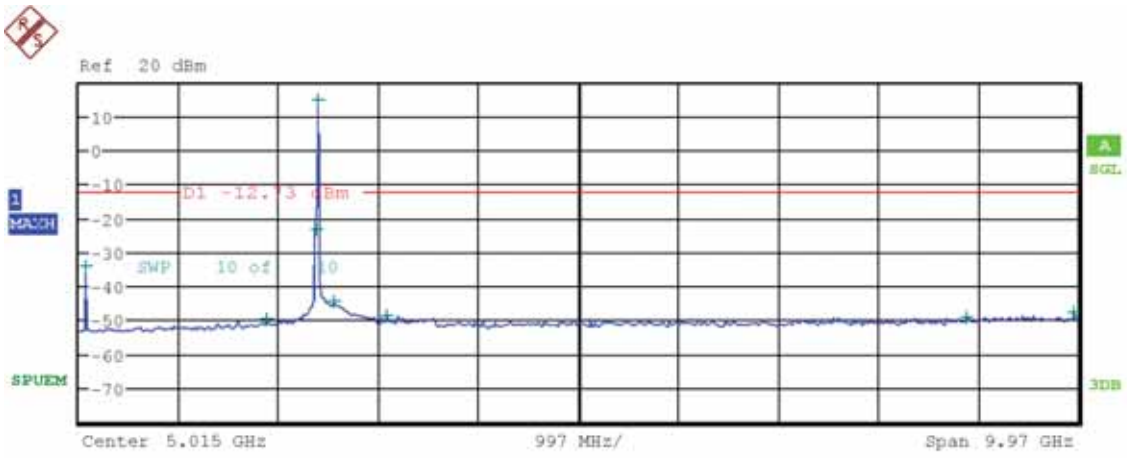
Reference



Low Band-edge

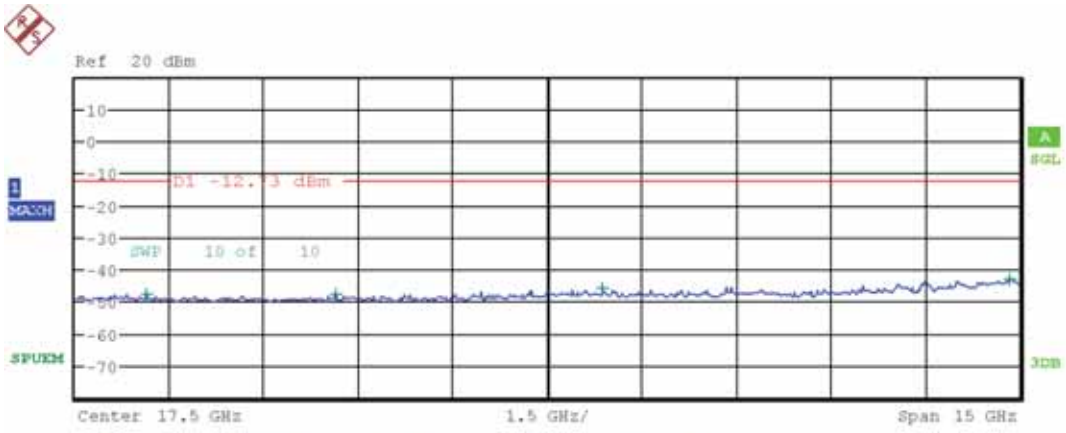
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	97.803000 M	-34.00
1.000 G	2.000 G	1.00 M	1.904800 G	-49.85
2.000 G	2.400 G	1.00 M	2.395760 G	-23.23
2.400 G	2.483 G	1.00 M	2.414145 G	14.80
2.483 G	3.000 G	1.00 M	2.573681 G	-44.72
3.000 G	6.000 G	1.00 M	3.102600 G	-48.69
6.000 G	9.000 G	1.00 M	8.886900 G	-49.32
9.000 G	10.000 G	1.00 M	9.956600 G	-47.91

Conducted Spurious Emissions

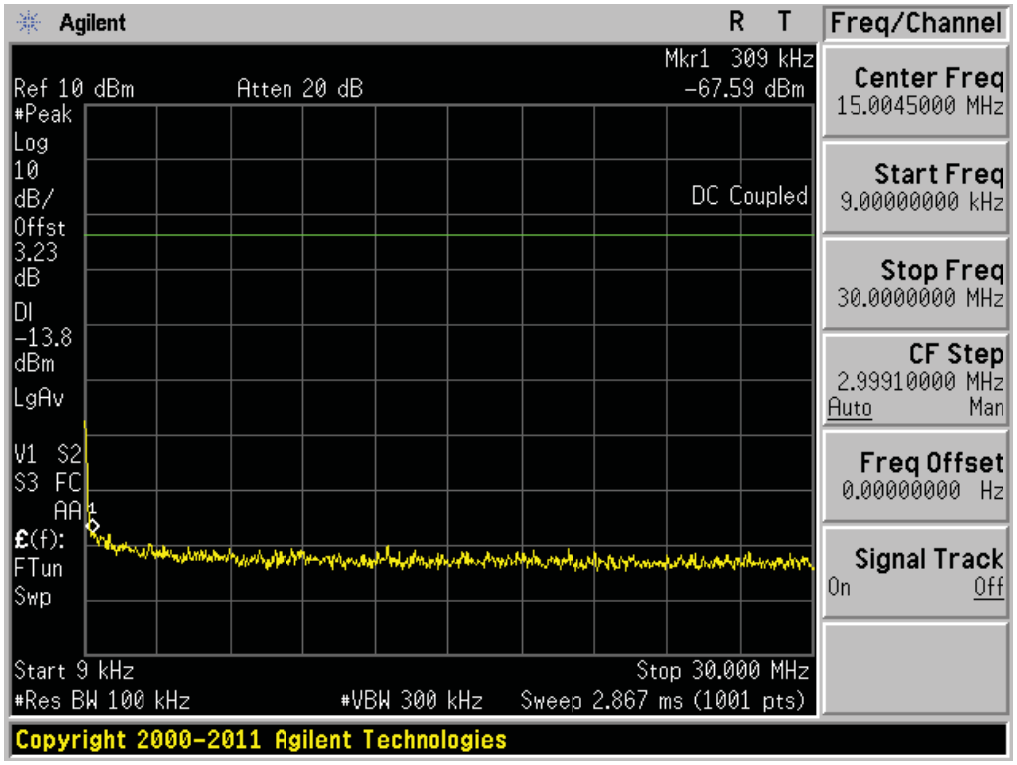


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.128300 G	-47.95
12.000 G	15.000 G	1.00 M	14.133750 G	-47.88
15.000 G	20.000 G	1.00 M	18.365750 G	-46.18
20.000 G	25.000 G	1.00 M	24.826500 G	-43.06

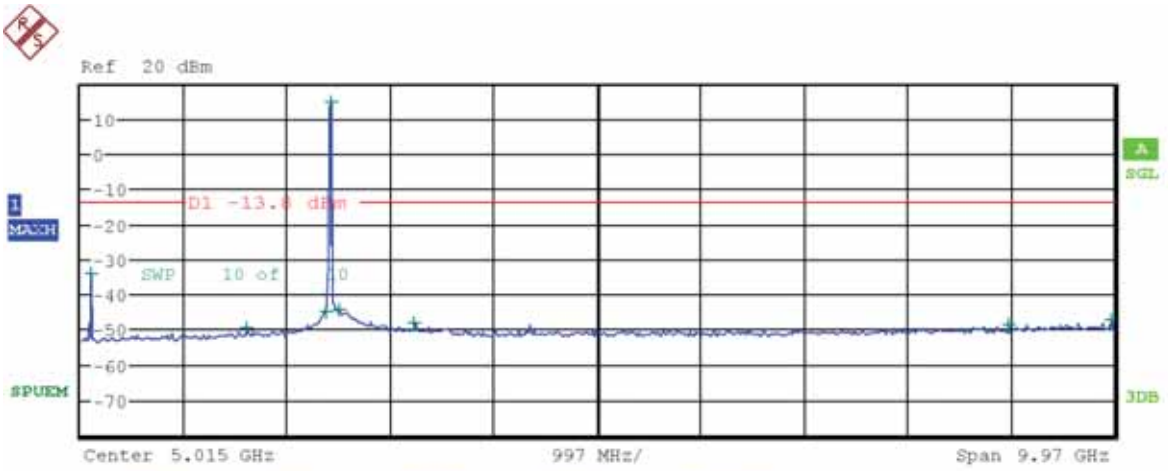
Test Mode: Chain 0 & 802.11b & 11Mbps & 2437MHz

Reference

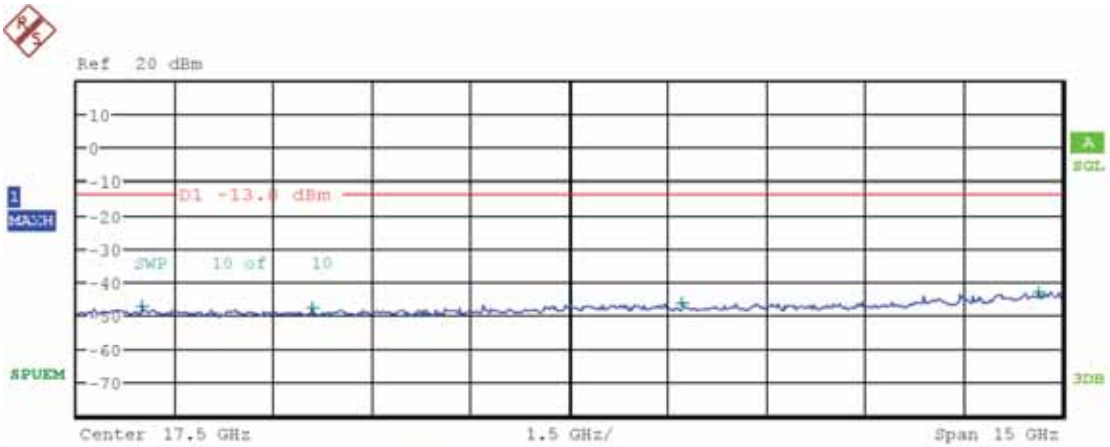
Conducted Spurious Emissions



Conducted Spurious Emissions



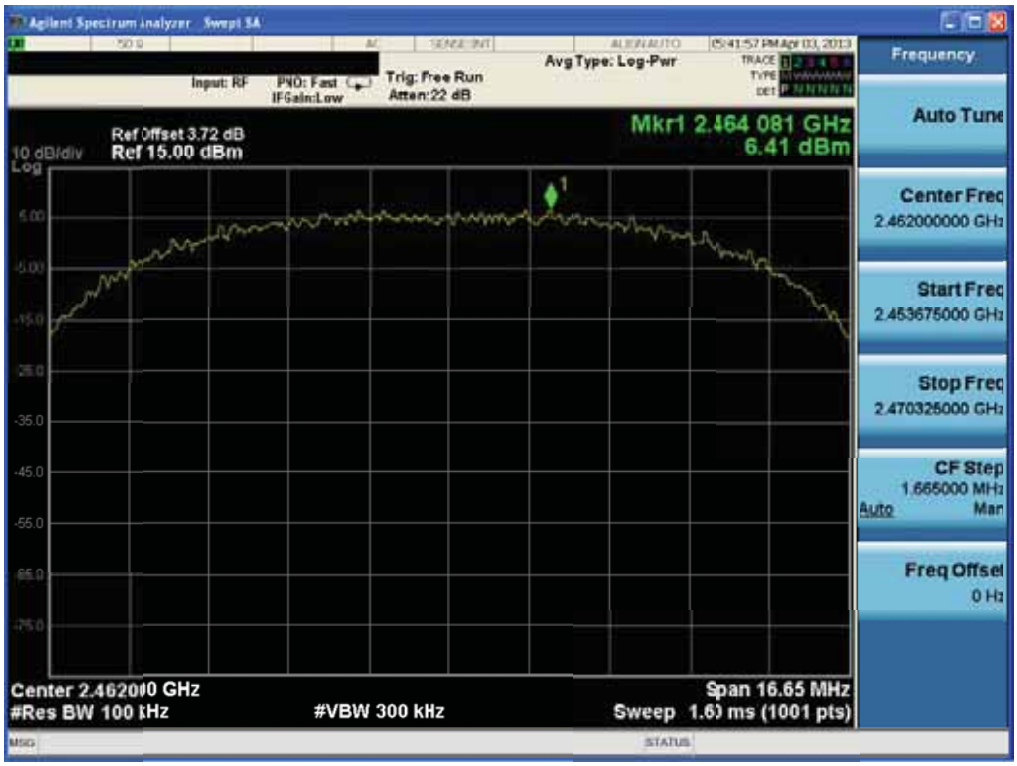
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	122.829000 M	-34.29
1.000 G	2.000 G	1.00 M	1.620100 G	-49.75
2.000 G	2.400 G	1.00 M	2.396920 G	-45.15
2.400 G	2.483 G	1.00 M	2.437592 G	14.56
2.483 G	3.000 G	1.00 M	2.522702 G	-44.60
3.000 G	6.000 G	1.00 M	3.249300 G	-48.48
6.000 G	9.000 G	1.00 M	8.970000 G	-48.96
9.000 G	10.000 G	1.00 M	9.975700 G	-47.22



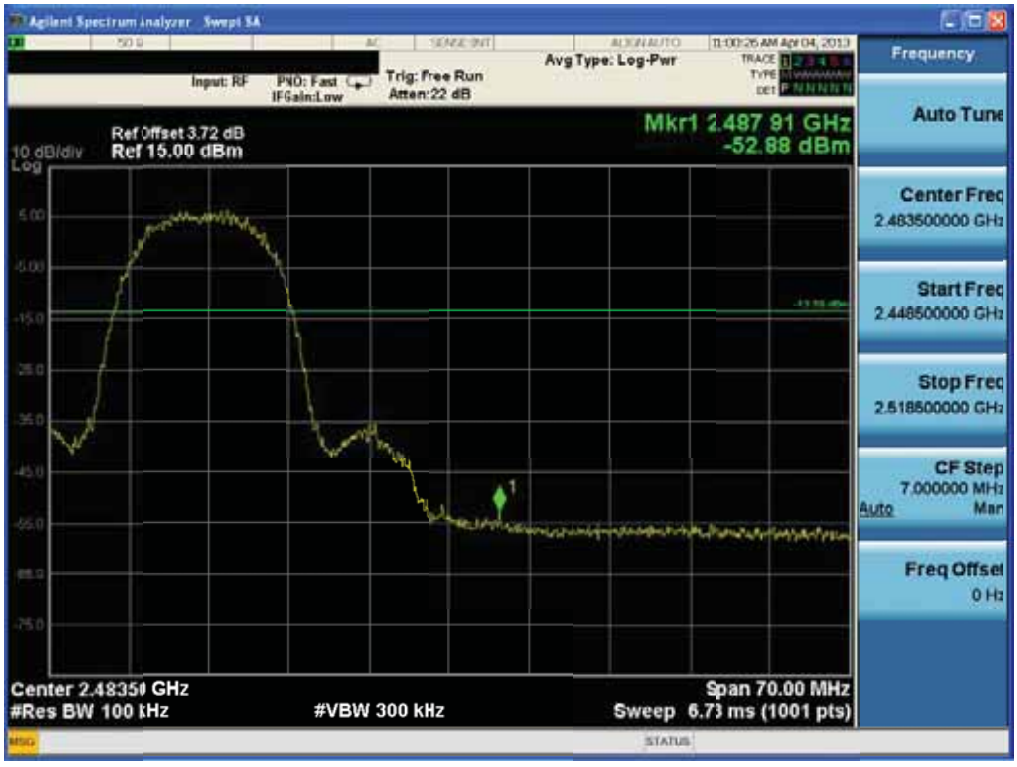
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.985200 G	-47.18
12.000 G	15.000 G	1.00 M	13.573050 G	-47.67
15.000 G	20.000 G	1.00 M	19.211750 G	-46.63
20.000 G	25.000 G	1.00 M	24.634750 G	-42.93

Test Mode: Chain 0 & 802.11b & 11Mbps & 2462MHz

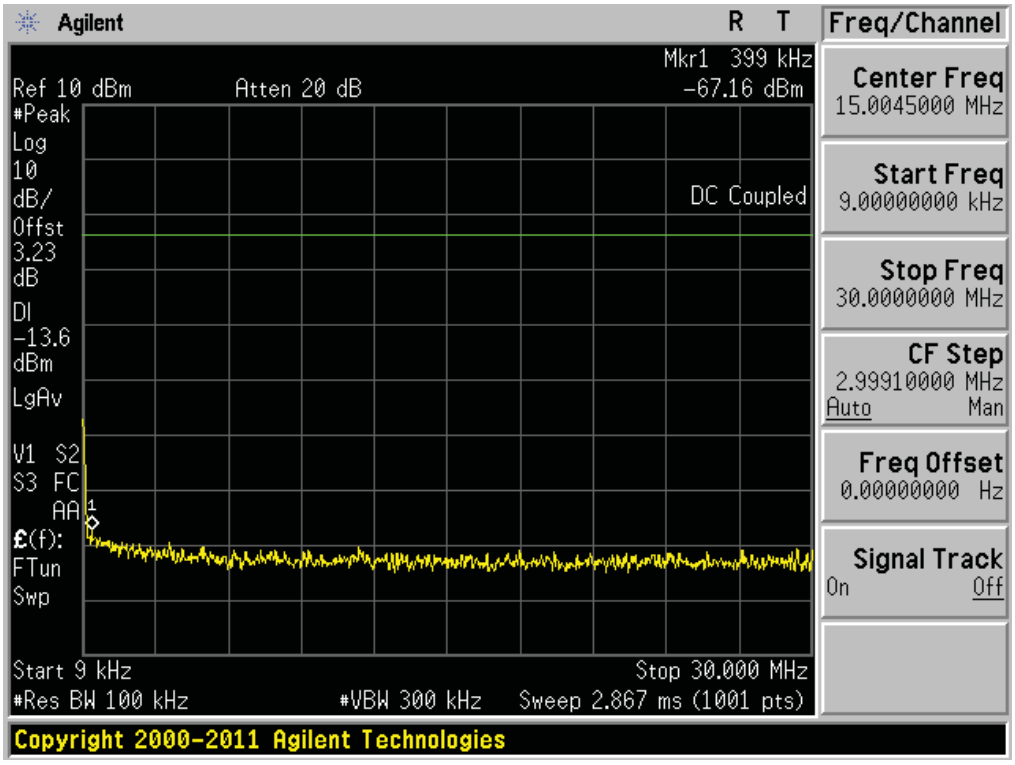
Reference

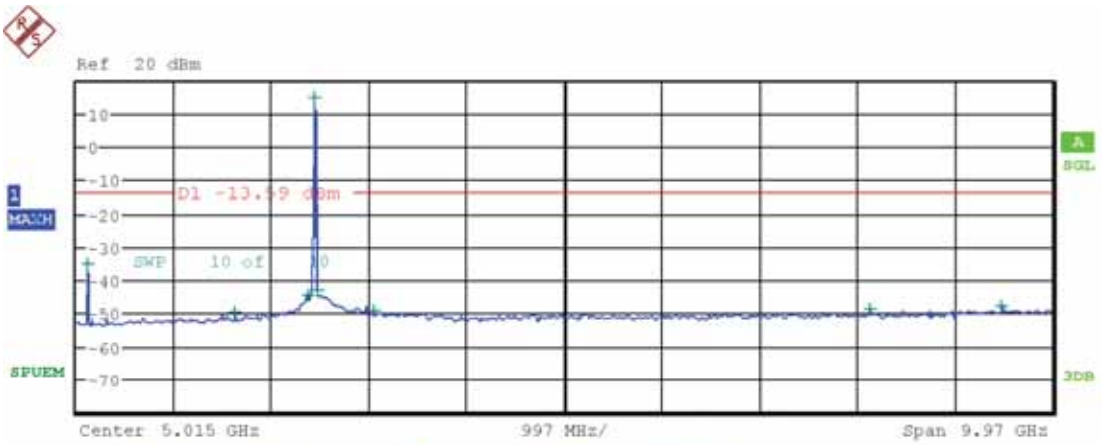


Low Band-edge



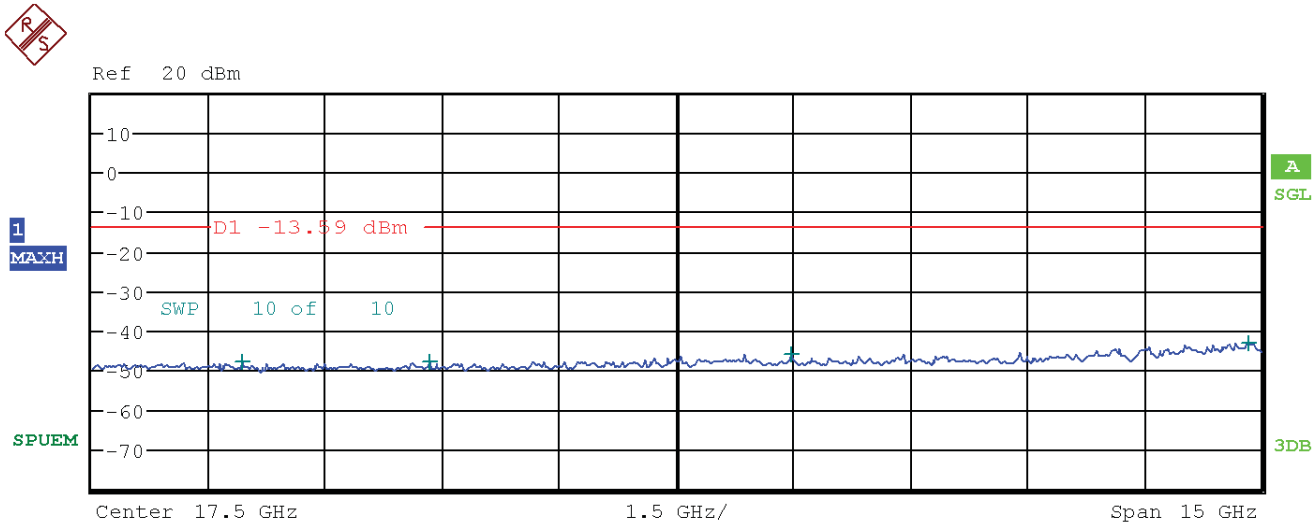
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	147.758000 M	-35.29
1.000 G	2.000 G	1.00 M	1.641900 G	-49.92
2.000 G	2.400 G	1.00 M	2.387440 G	-44.66
2.400 G	2.483 G	1.00 M	2.462483 G	14.52
2.483 G	3.000 G	1.00 M	2.483707 G	-43.35
3.000 G	6.000 G	1.00 M	3.063300 G	-49.21
6.000 G	9.000 G	1.00 M	8.129400 G	-48.97
9.000 G	10.000 G	1.00 M	9.480700 G	-48.06

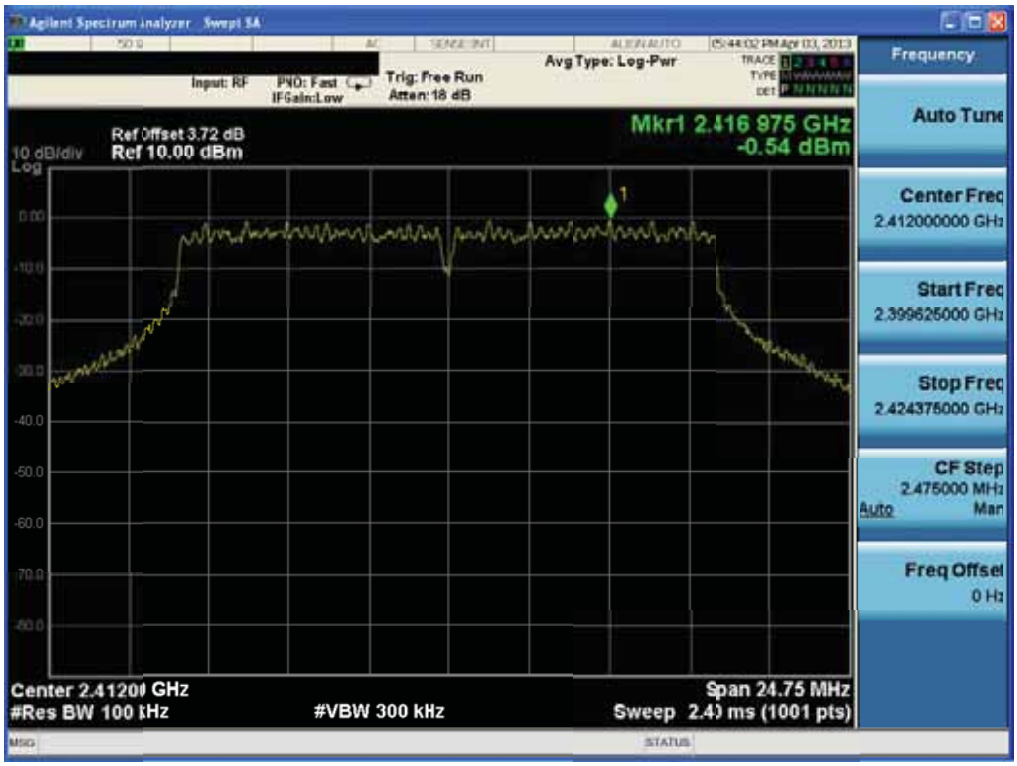
Conducted Spurious Emissions



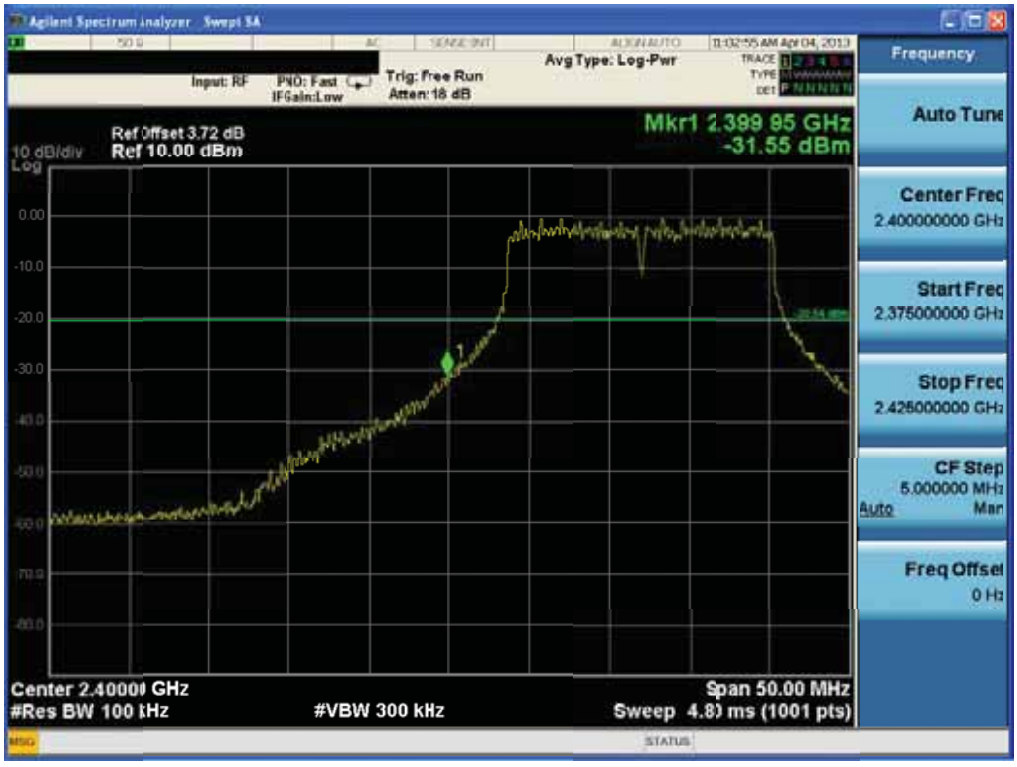
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.923100 G	-47.91
12.000 G	15.000 G	1.00 M	14.317650 G	-47.89
15.000 G	20.000 G	1.00 M	18.972250 G	-46.15
20.000 G	25.000 G	1.00 M	24.827000 G	-42.96

Test Mode: Chain 0 & 802.11g & 24Mbps & 2412MHz

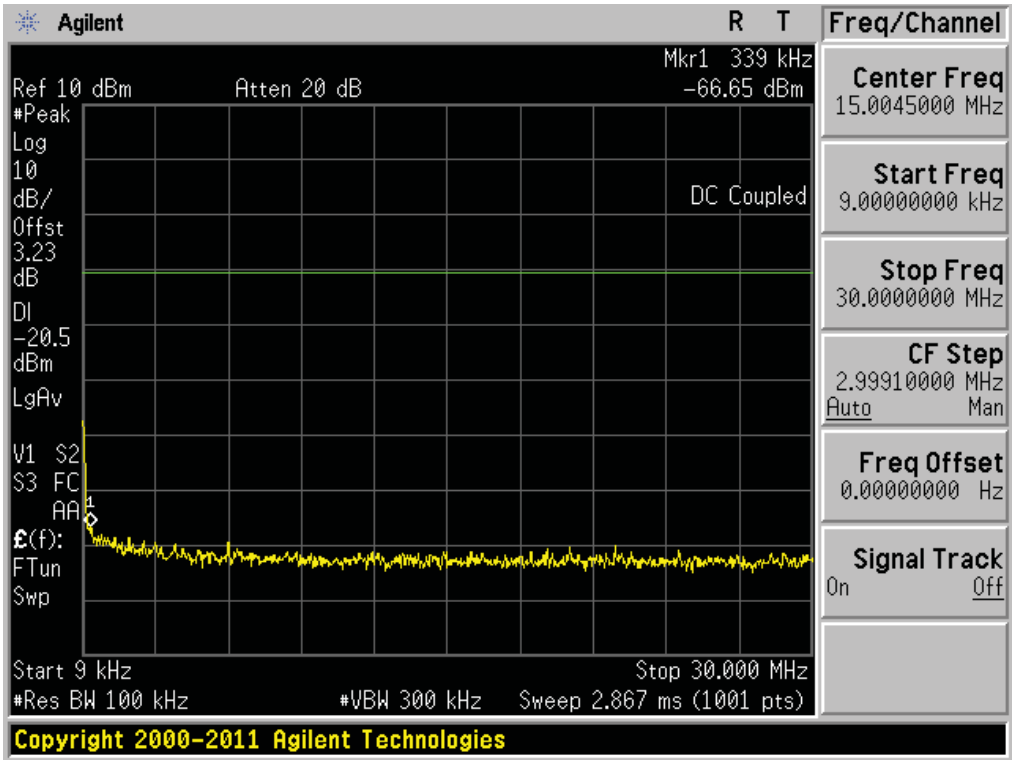
Reference

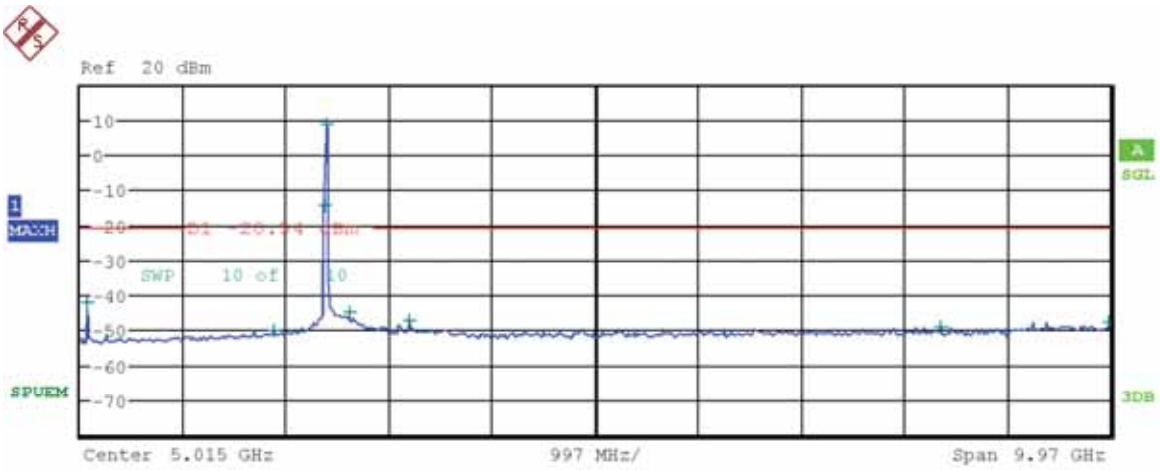


Low Band-edge



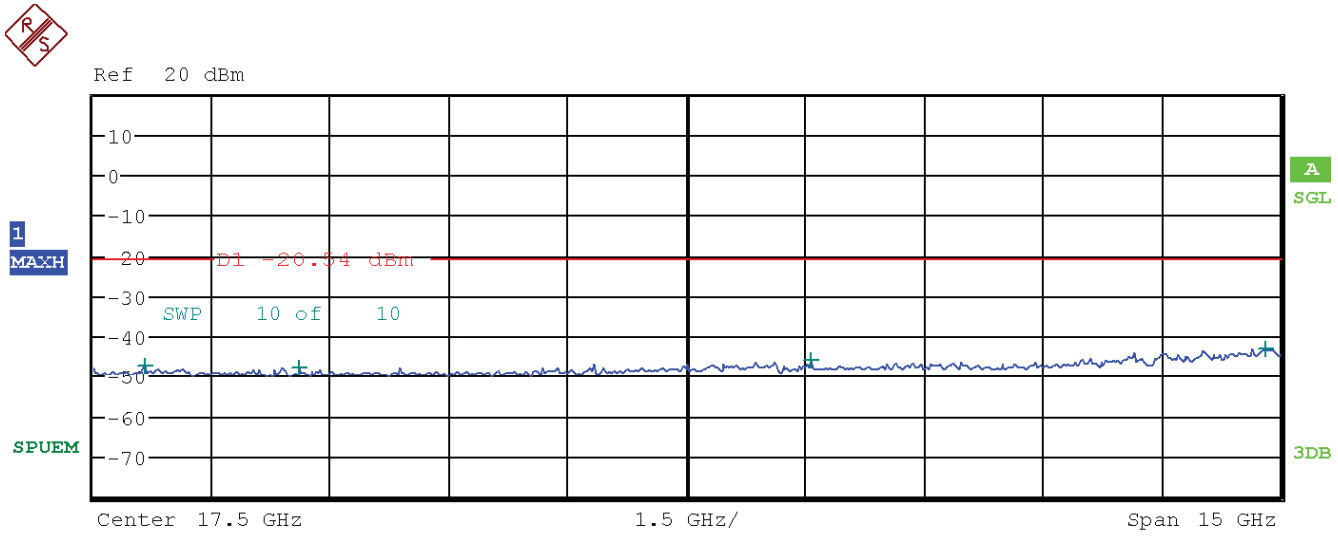
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	98.094000 M	-42.17
1.000 G	2.000 G	1.00 M	1.893000 G	-50.19
2.000 G	2.400 G	1.00 M	2.399760 G	-14.39
2.400 G	2.483 G	1.00 M	2.405803 G	8.57
2.483 G	3.000 G	1.00 M	2.636384 G	-45.18
3.000 G	6.000 G	1.00 M	3.216000 G	-47.29
6.000 G	9.000 G	1.00 M	8.354700 G	-49.22
9.000 G	10.000 G	1.00 M	9.984400 G	-47.81

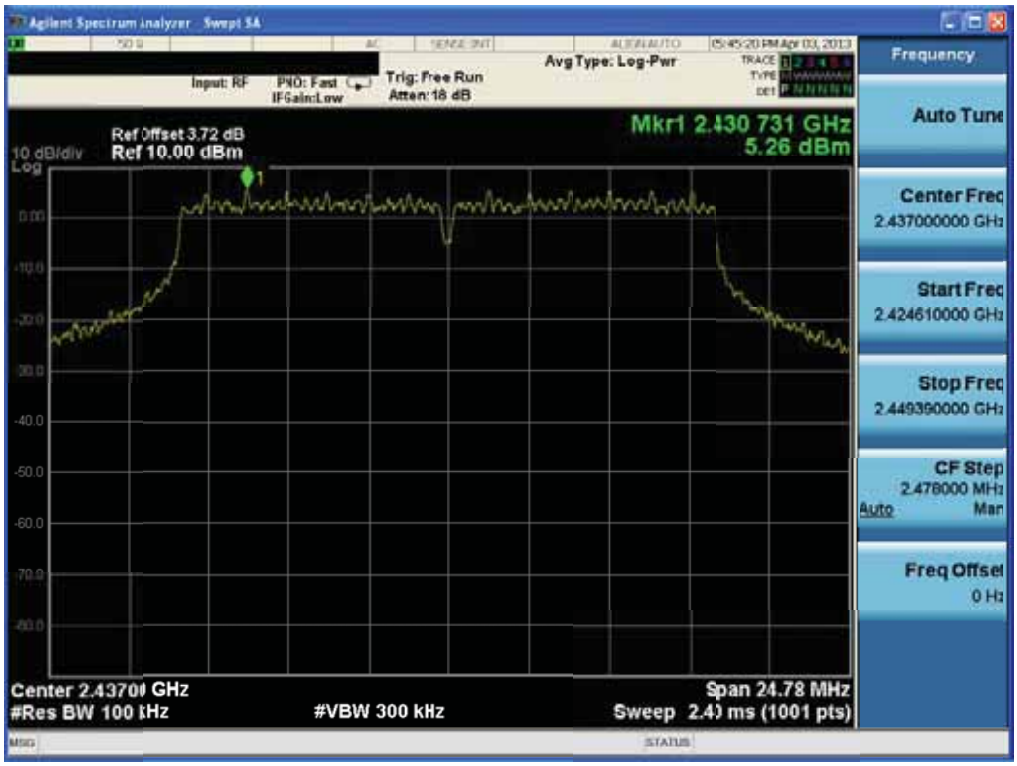
Conducted Spurious Emissions



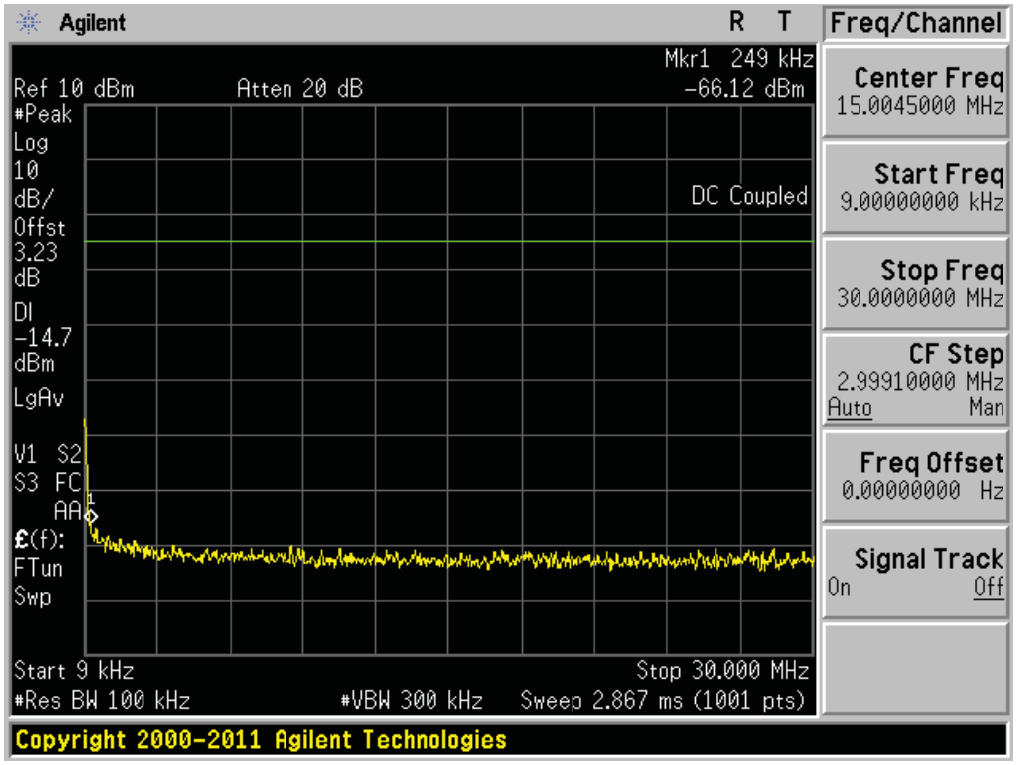
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.640800 G	-47.51
12.000 G	15.000 G	1.00 M	12.604050 G	-47.79
15.000 G	20.000 G	1.00 M	19.073750 G	-45.79
20.000 G	25.000 G	1.00 M	24.810250 G	-43.10

Test Mode: Chain 0 & 802.11g & 24Mbps & 2437MHz

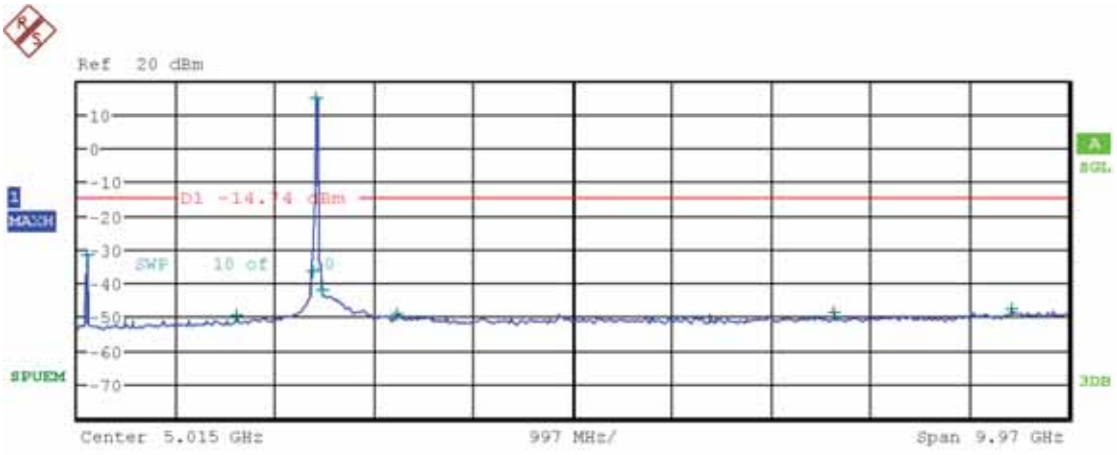
Reference



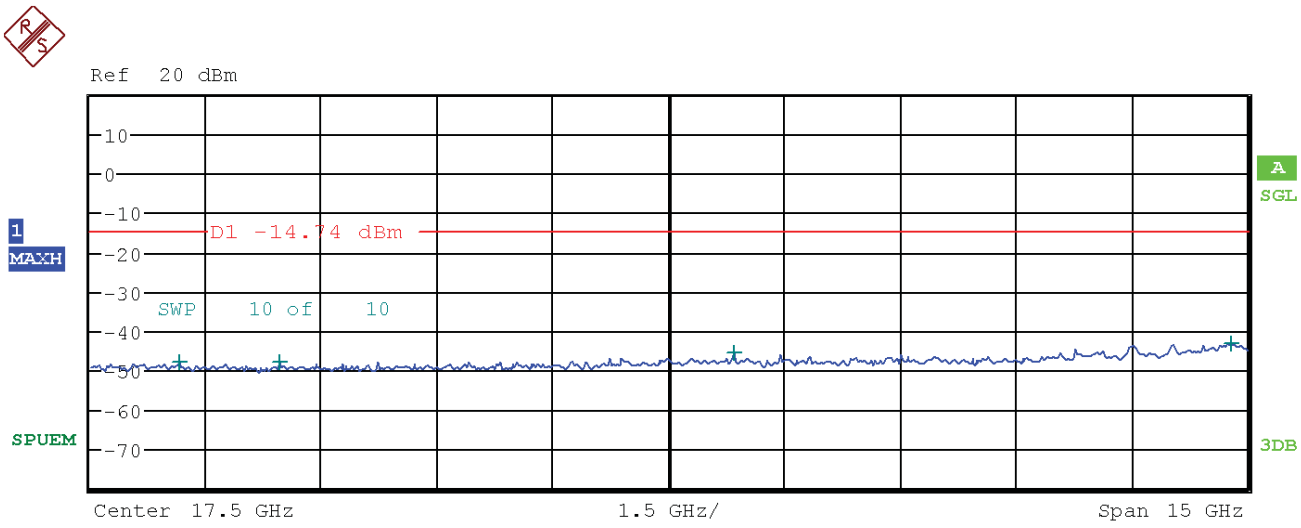
Conducted Spurious Emissions



Conducted Spurious Emissions



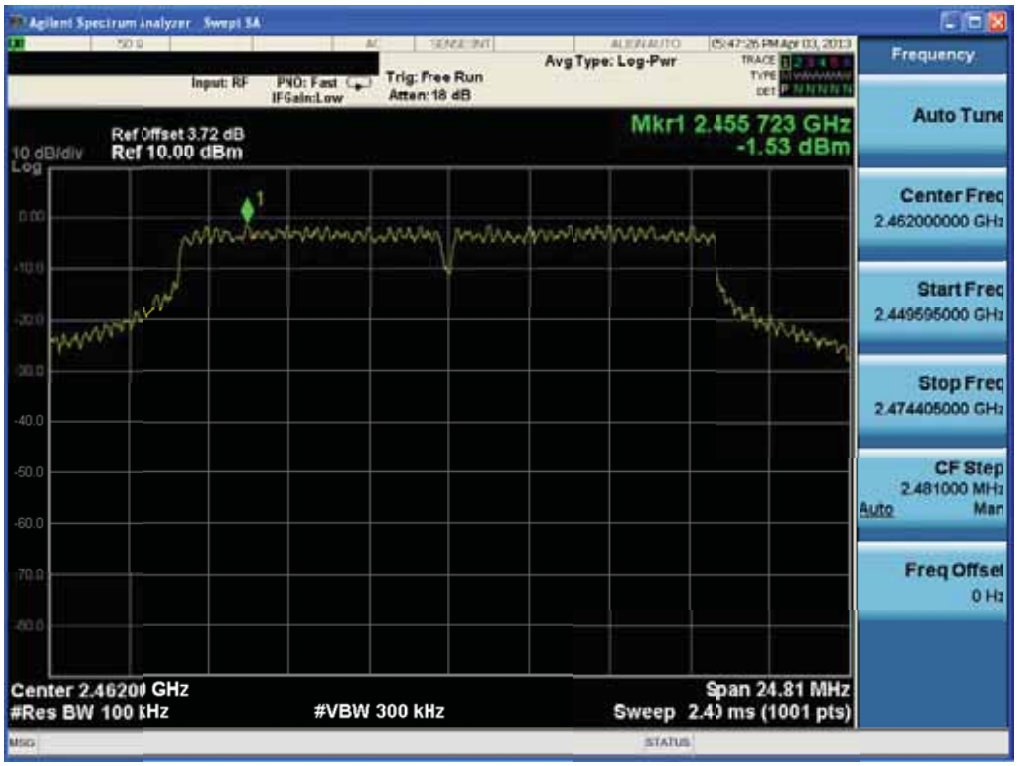
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	123.411000 M	-32.03
1.000 G	2.000 G	1.00 M	1.624700 G	-49.94
2.000 G	2.400 G	1.00 M	2.399640 G	-36.54
2.400 G	2.483 G	1.00 M	2.430828 G	14.62
2.483 G	3.000 G	1.00 M	2.484378 G	-42.30
3.000 G	6.000 G	1.00 M	3.249300 G	-49.20
6.000 G	9.000 G	1.00 M	7.628100 G	-48.81
9.000 G	10.000 G	1.00 M	9.428200 G	-47.75



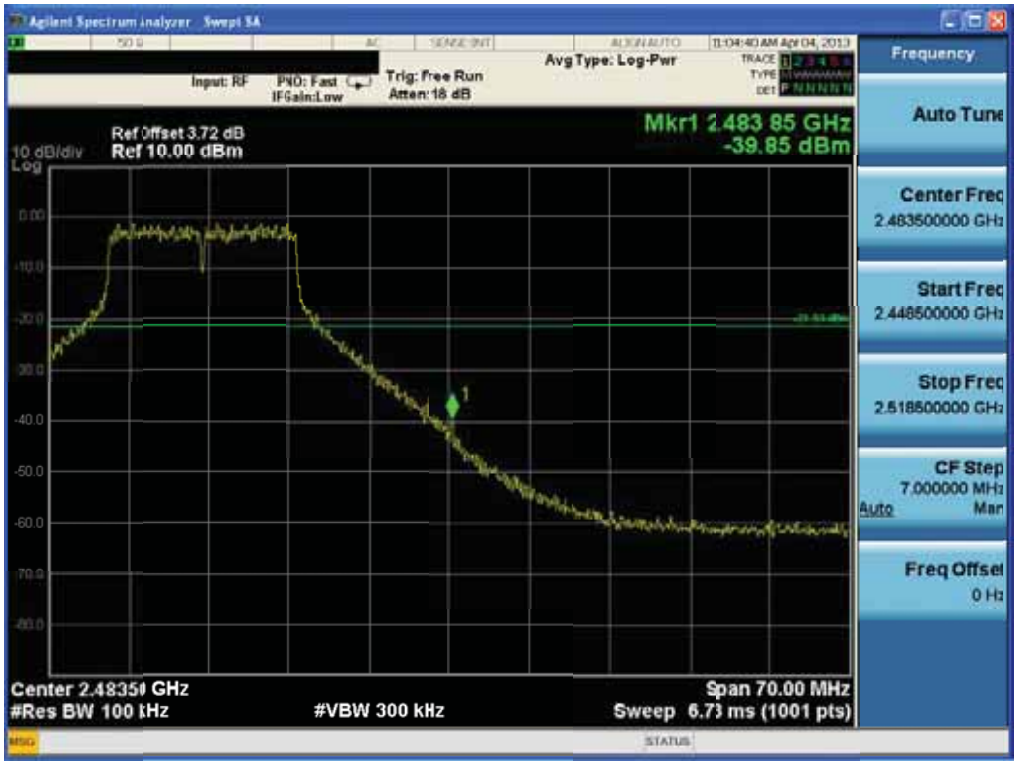
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.142700 G	-47.84
12.000 G	15.000 G	1.00 M	12.455850 G	-47.87
15.000 G	20.000 G	1.00 M	18.331250 G	-45.68
20.000 G	25.000 G	1.00 M	24.785250 G	-43.19

Test Mode: Chain 0 & 802.11g & 24Mbps & 2462MHz

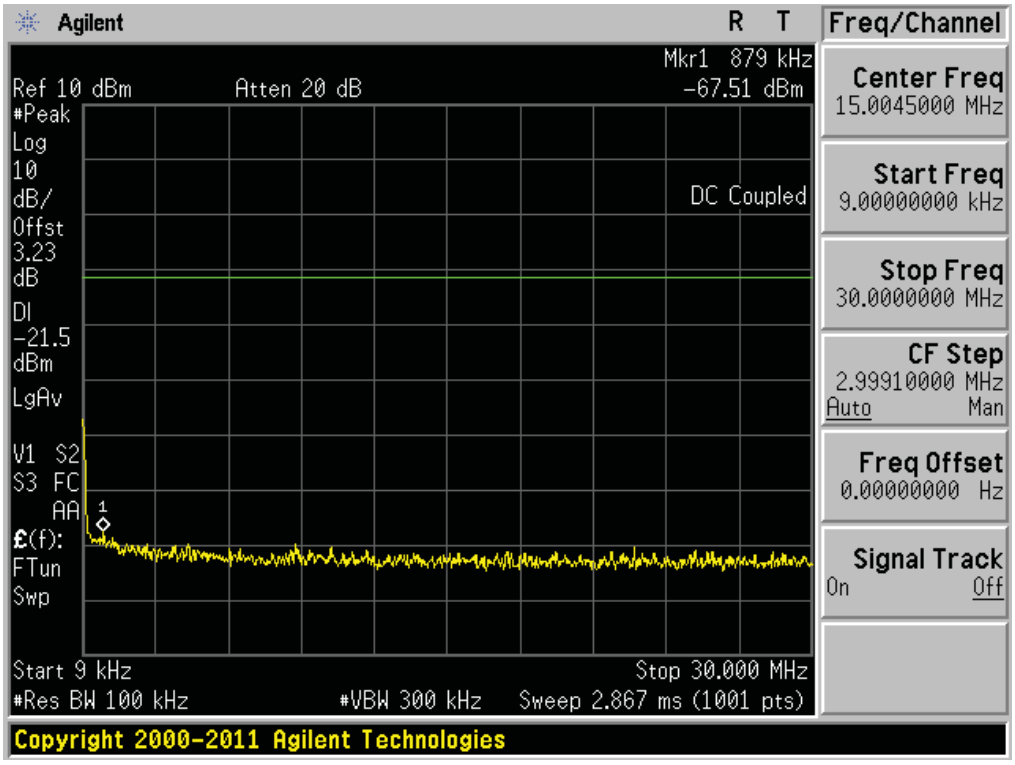
Reference

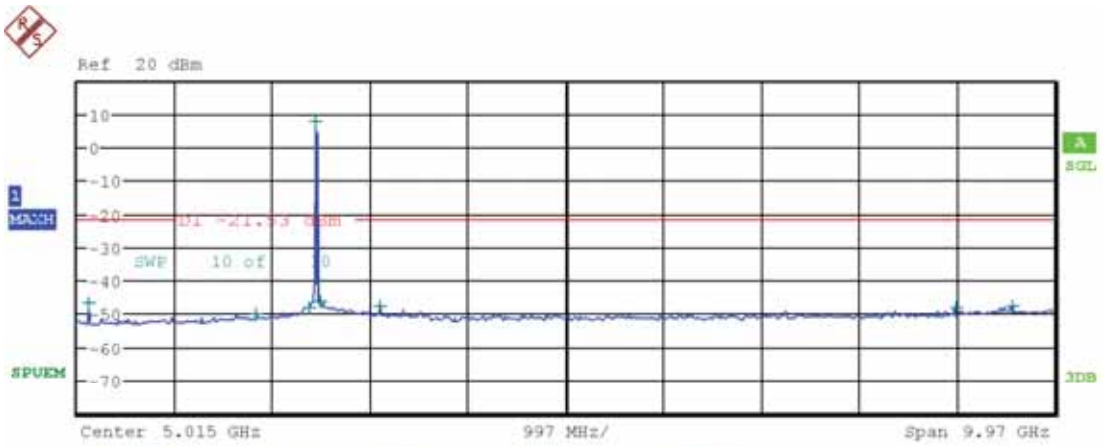


Low Band-edge



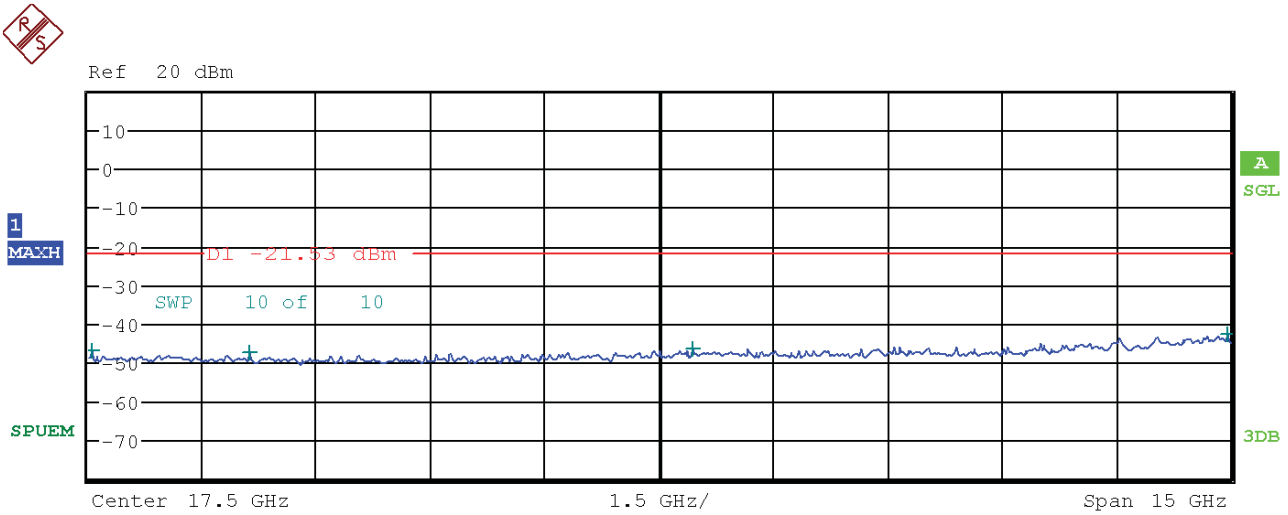
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	147.758000 M	-46.86
1.000 G	2.000 G	1.00 M	1.852400 G	-49.98
2.000 G	2.400 G	1.00 M	2.390240 G	-48.33
2.400 G	2.483 G	1.00 M	2.462525 G	7.74
2.483 G	3.000 G	1.00 M	2.506381 G	-46.26
3.000 G	6.000 G	1.00 M	3.114600 G	-47.86
6.000 G	9.000 G	1.00 M	8.995200 G	-48.40
9.000 G	10.000 G	1.00 M	9.564700 G	-47.62

Conducted Spurious Emissions

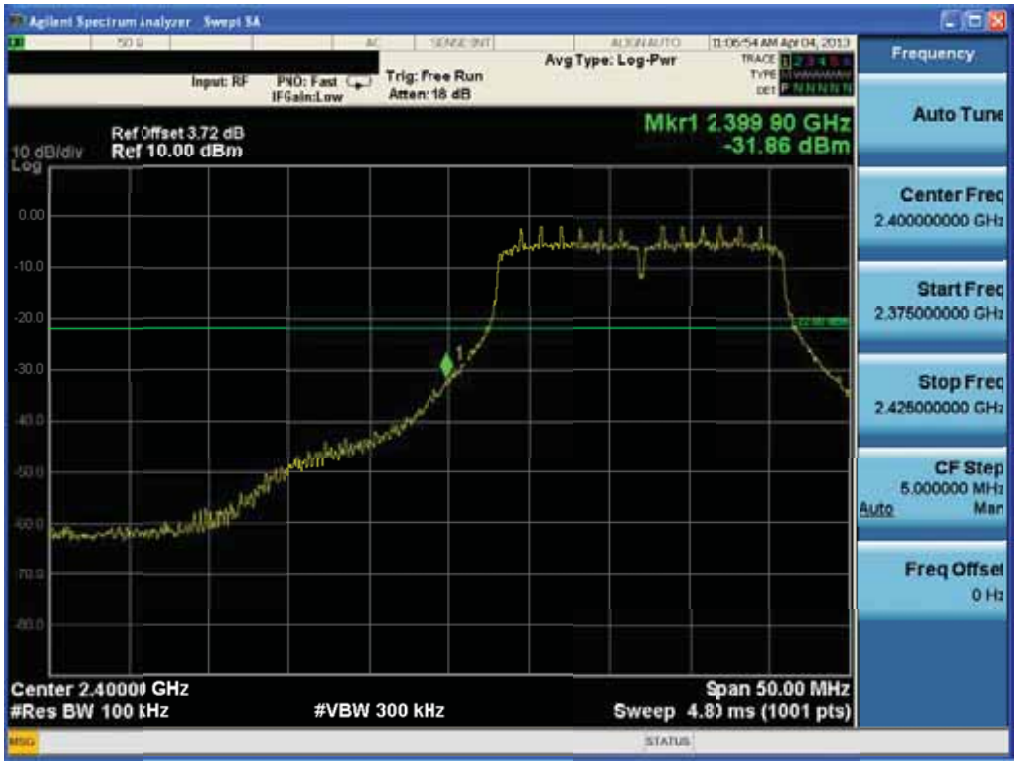


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.054100 G	-47.09
12.000 G	15.000 G	1.00 M	12.114900 G	-47.37
15.000 G	20.000 G	1.00 M	17.937250 G	-46.37
20.000 G	25.000 G	1.00 M	24.944750 G	-42.84

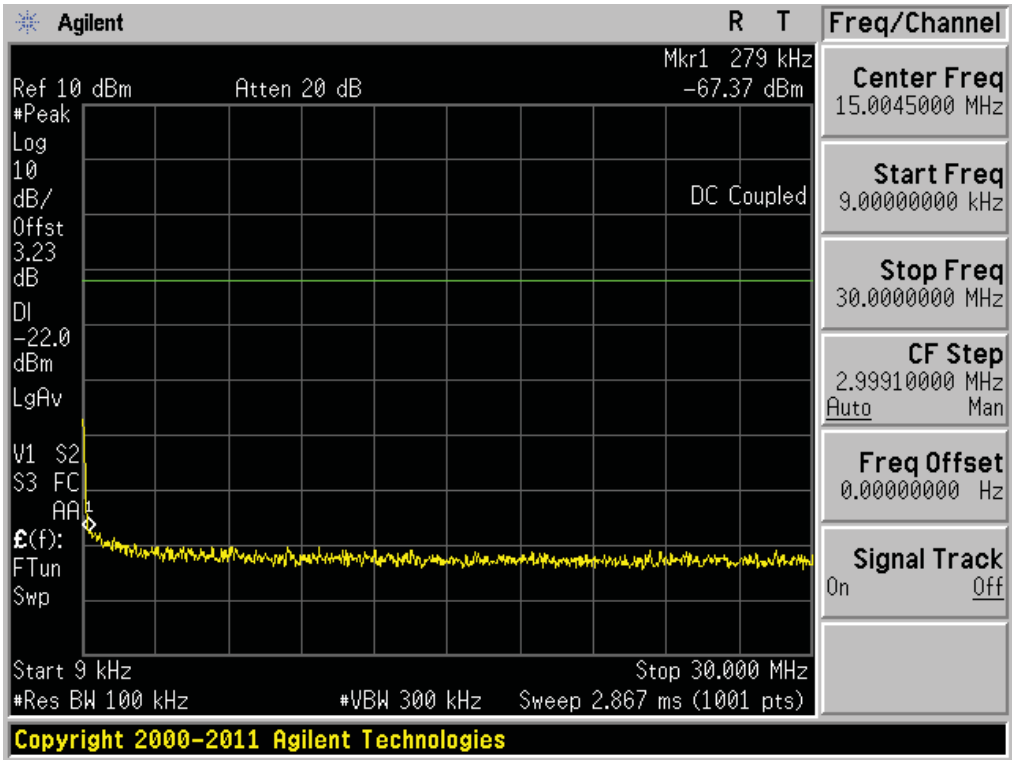
Test Mode: Chain 0 & 802.11n HT20 & MCS 8 & 2412MHz

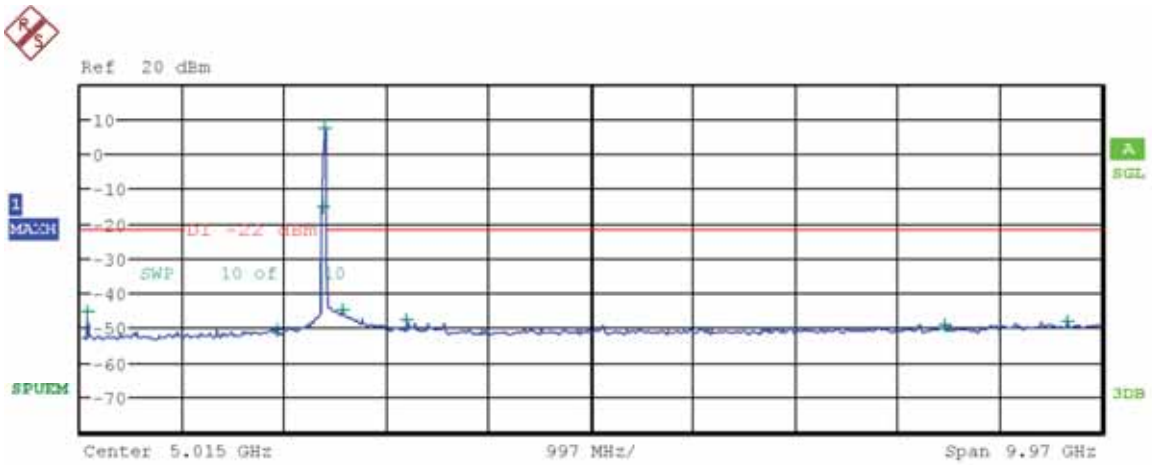
Reference

Low Band-edge



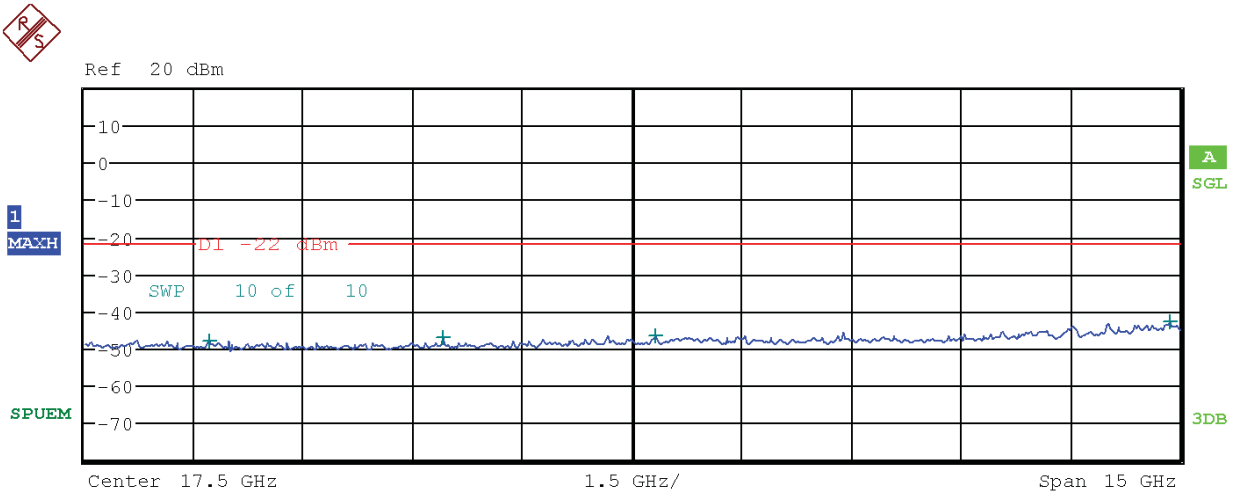
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	93.438000 M	-45.61
1.000 G	2.000 G	1.00 M	1.942500 G	-50.44
2.000 G	2.400 G	1.00 M	2.399480 G	-15.34
2.400 G	2.483 G	1.00 M	2.406045 G	7.25
2.483 G	3.000 G	1.00 M	2.581170 G	-45.17
3.000 G	6.000 G	1.00 M	3.216000 G	-47.90
6.000 G	9.000 G	1.00 M	8.469300 G	-49.23
9.000 G	10.000 G	1.00 M	9.657800 G	-48.11

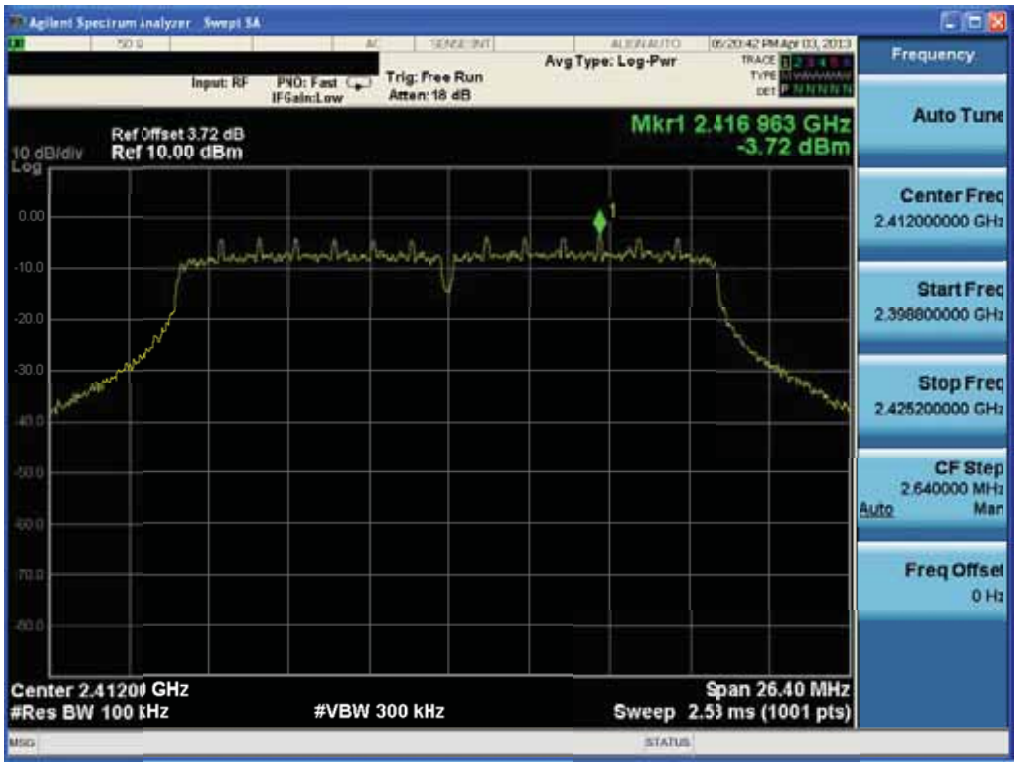
Conducted Spurious Emissions



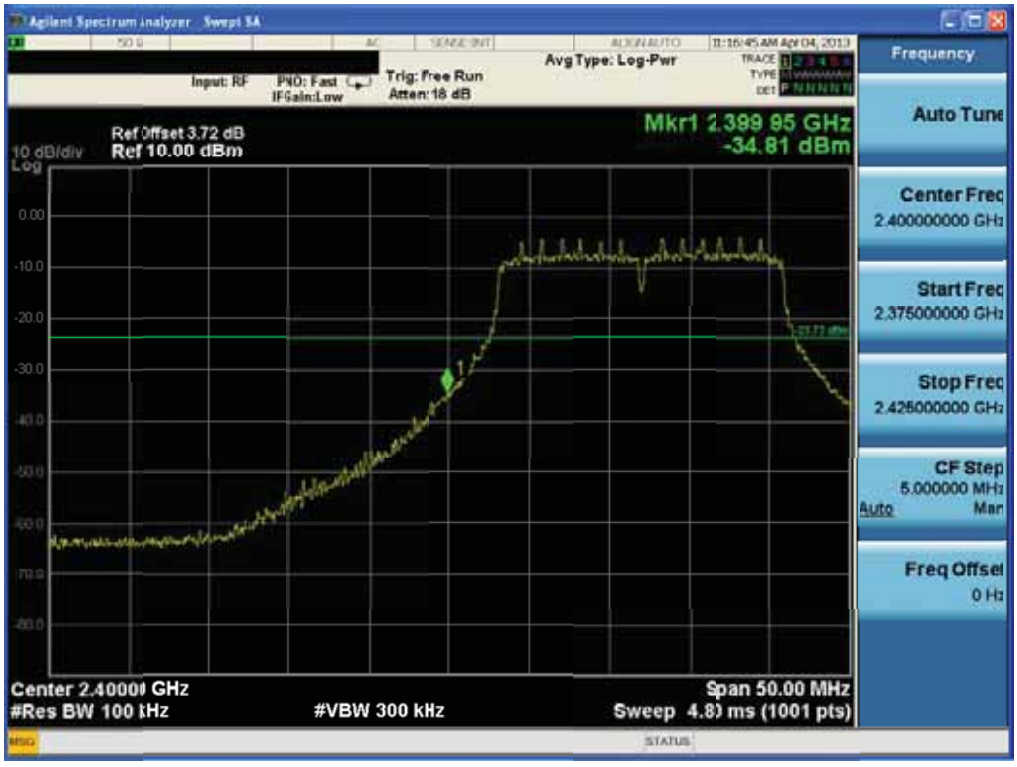
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.713300 G	-47.61
12.000 G	15.000 G	1.00 M	14.895450 G	-46.68
15.000 G	20.000 G	1.00 M	17.821250 G	-46.51
20.000 G	25.000 G	1.00 M	24.861500 G	-42.71

Test Mode: Chain 1 & 802.11n HT20 & MCS 8 & 2412MHz

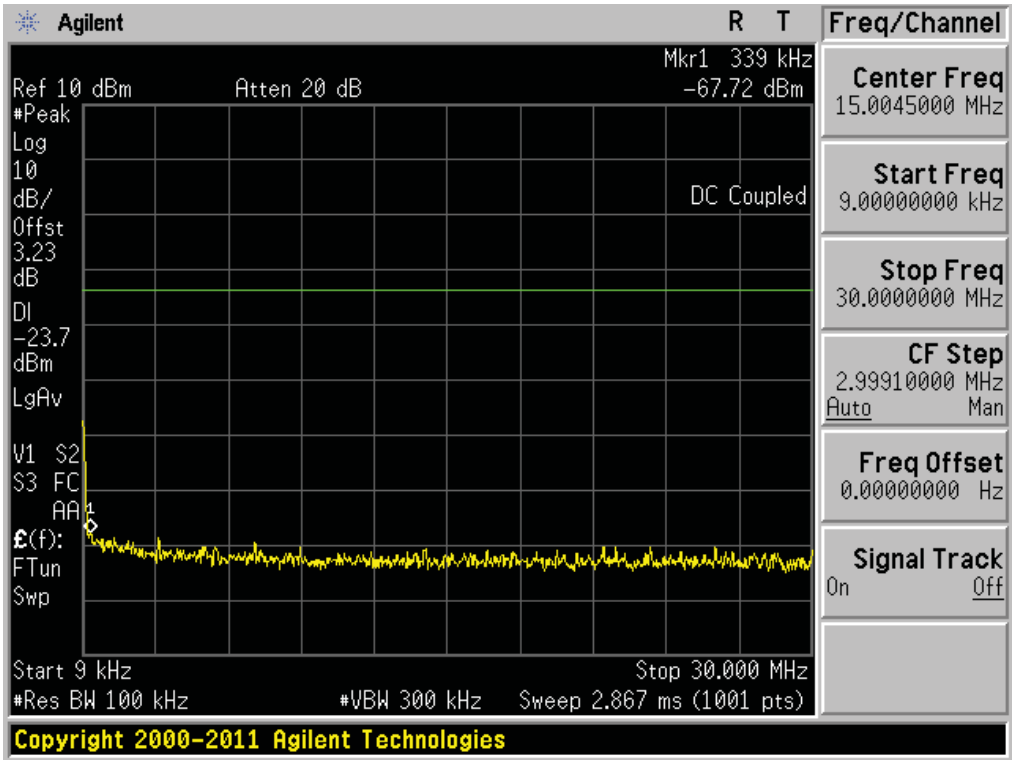
Reference

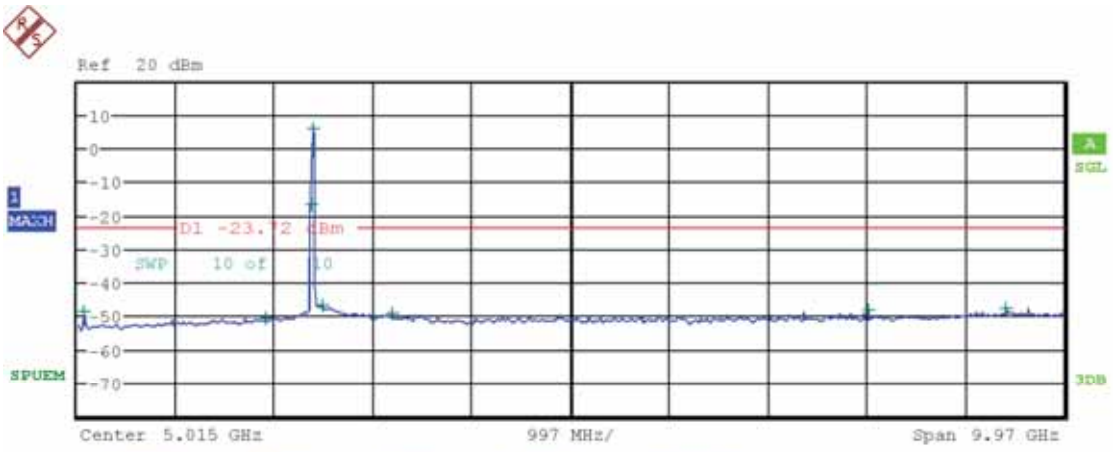


Low Band-edge



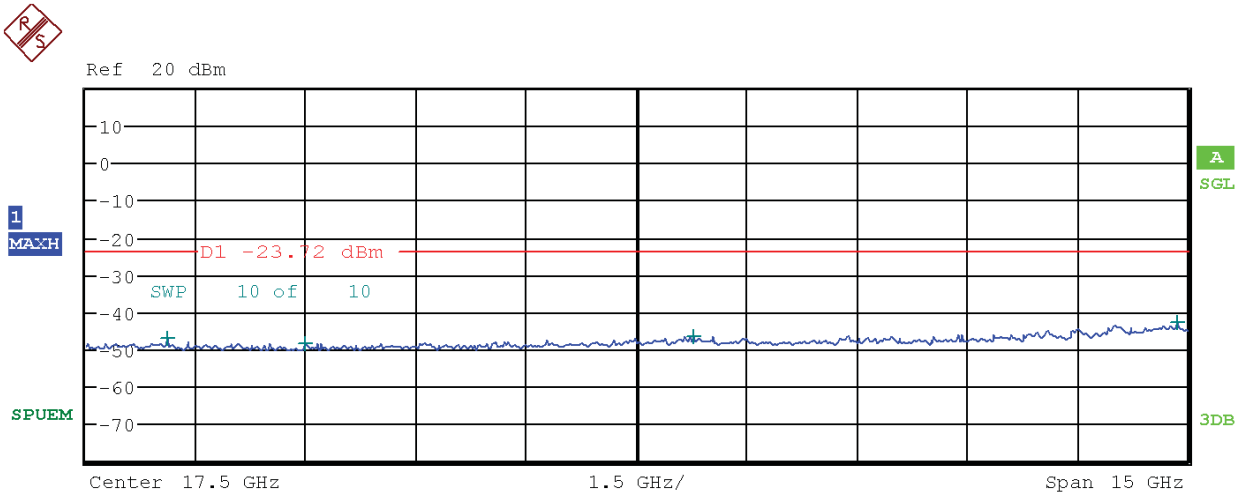
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	98.482000 M	-48.59
1.000 G	2.000 G	1.00 M	1.936000 G	-50.64
2.000 G	2.400 G	1.00 M	2.399520 G	-16.71
2.400 G	2.483 G	1.00 M	2.416842 G	5.63
2.483 G	3.000 G	1.00 M	2.507517 G	-46.89
3.000 G	6.000 G	1.00 M	3.216300 G	-49.23
6.000 G	9.000 G	1.00 M	8.026200 G	-48.14
9.000 G	10.000 G	1.00 M	9.406400 G	-47.94

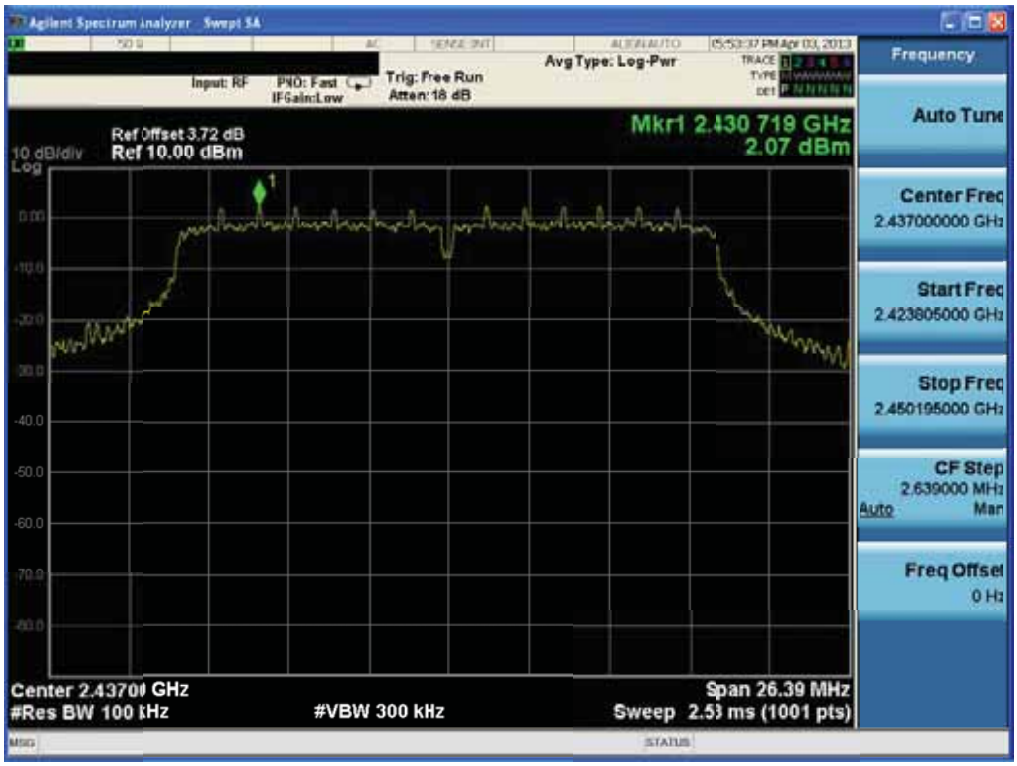
Conducted Spurious Emissions



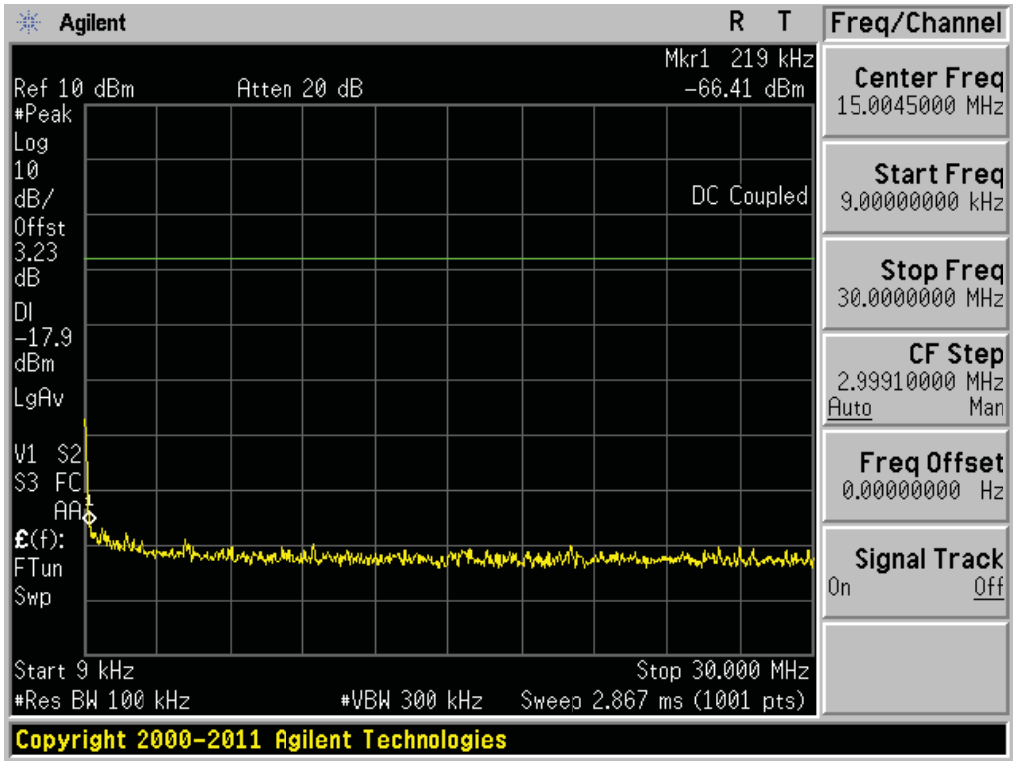
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.106100 G	-47.02
12.000 G	15.000 G	1.00 M	12.991950 G	-48.19
15.000 G	20.000 G	1.00 M	18.272500 G	-46.26
20.000 G	25.000 G	1.00 M	24.857750 G	-42.81

Test Mode: Chain 0 & 802.11n HT20 & MCS 8 & 2437MHz

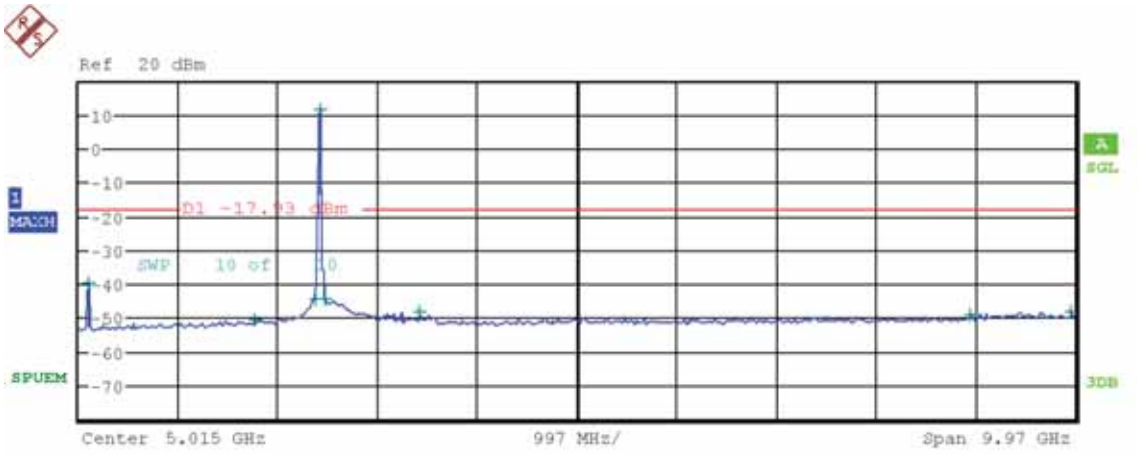
Reference



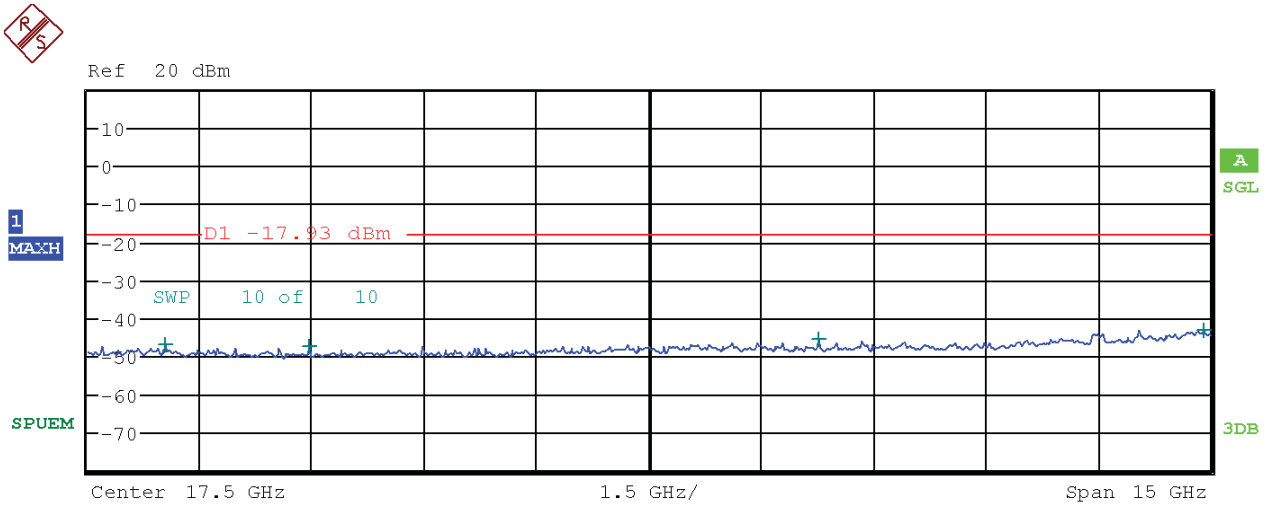
Conducted Spurious Emissions



Conducted Spurious Emissions



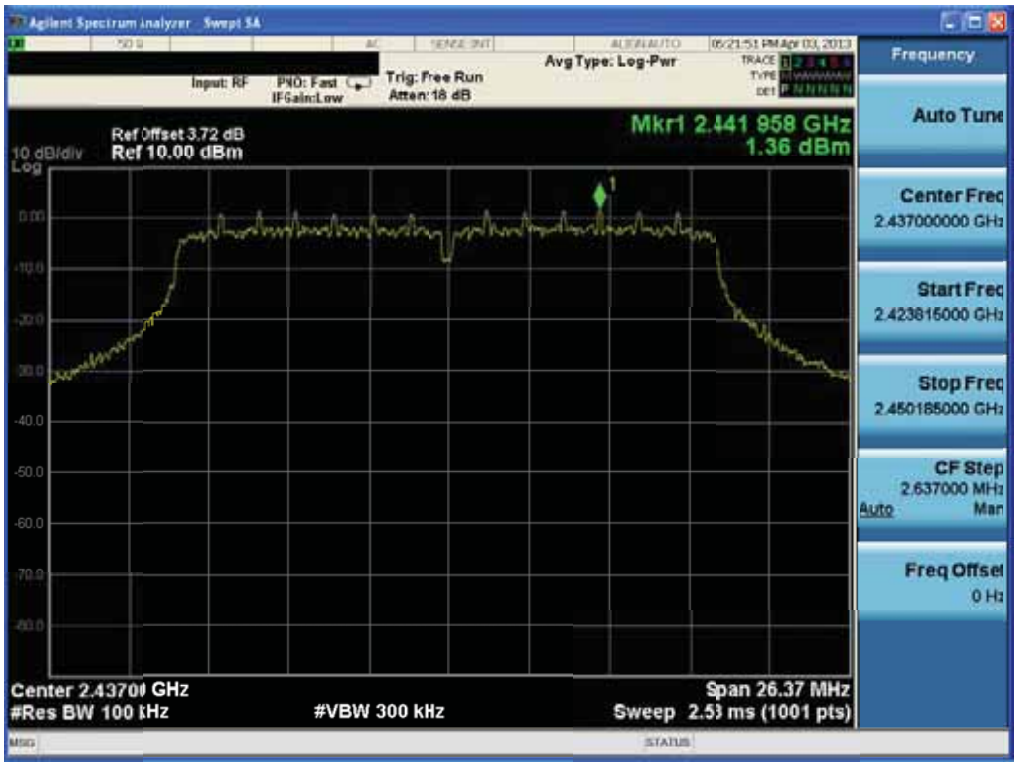
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	122.926000 M	-39.88
1.000 G	2.000 G	1.00 M	1.781400 G	-50.53
2.000 G	2.400 G	1.00 M	2.391520 G	-44.40
2.400 G	2.483 G	1.00 M	2.443428 G	11.13
2.483 G	3.000 G	1.00 M	2.483500 G	-44.44
3.000 G	6.000 G	1.00 M	3.440700 G	-48.19
6.000 G	9.000 G	1.00 M	8.940900 G	-49.30
9.000 G	10.000 G	1.00 M	9.949500 G	-48.23



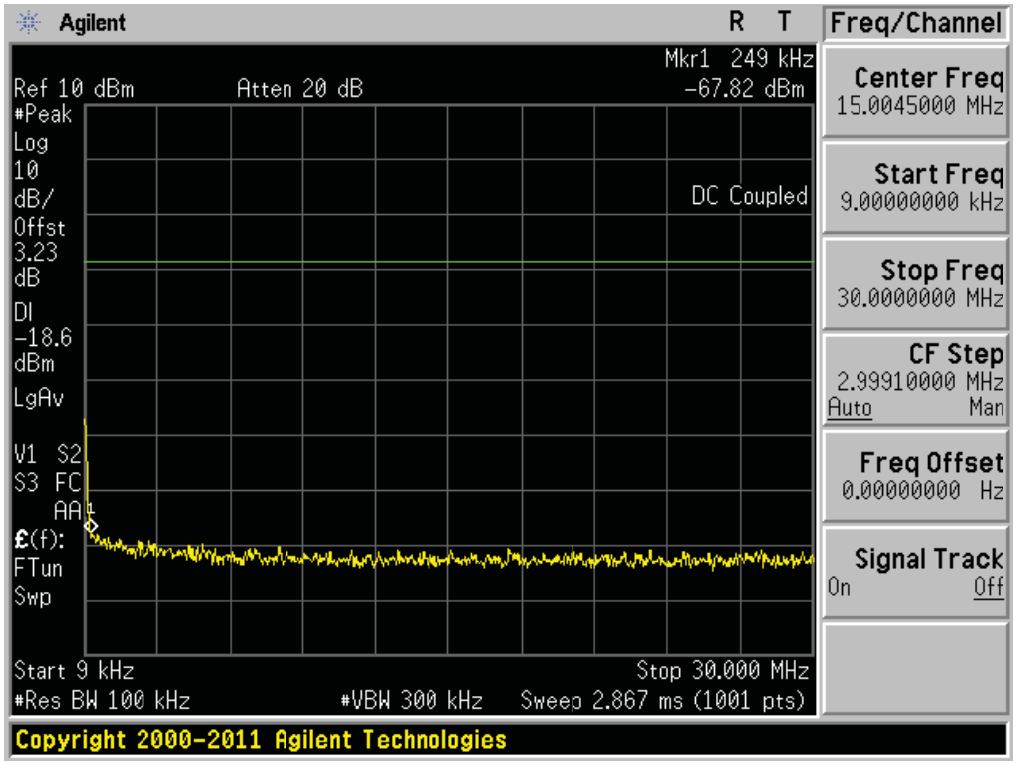
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.023700 G	-47.06
12.000 G	15.000 G	1.00 M	12.950400 G	-47.51
15.000 G	20.000 G	1.00 M	19.753000 G	-45.46
20.000 G	25.000 G	1.00 M	24.892500 G	-43.07

Test Mode: Chain 1 & 802.11n HT20 & MCS 8 & 2437MHz

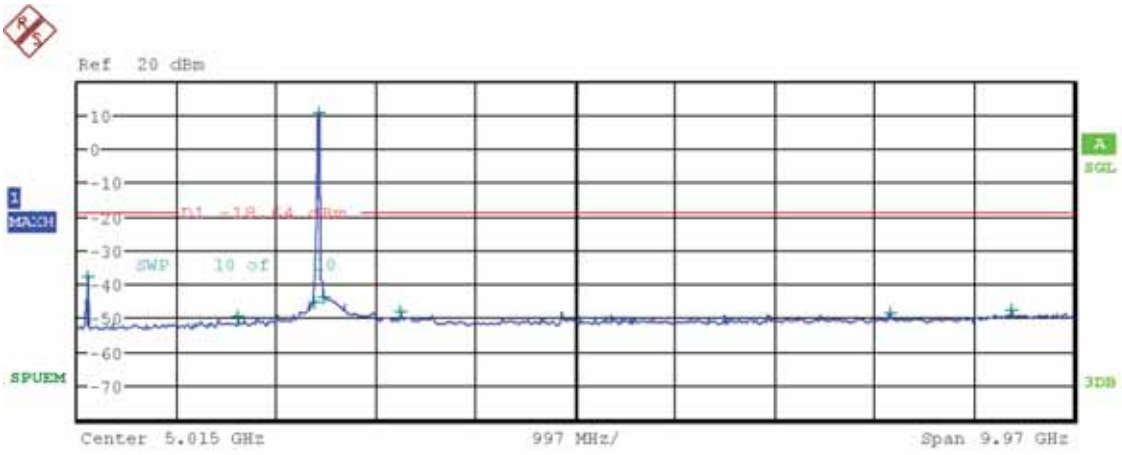
Reference



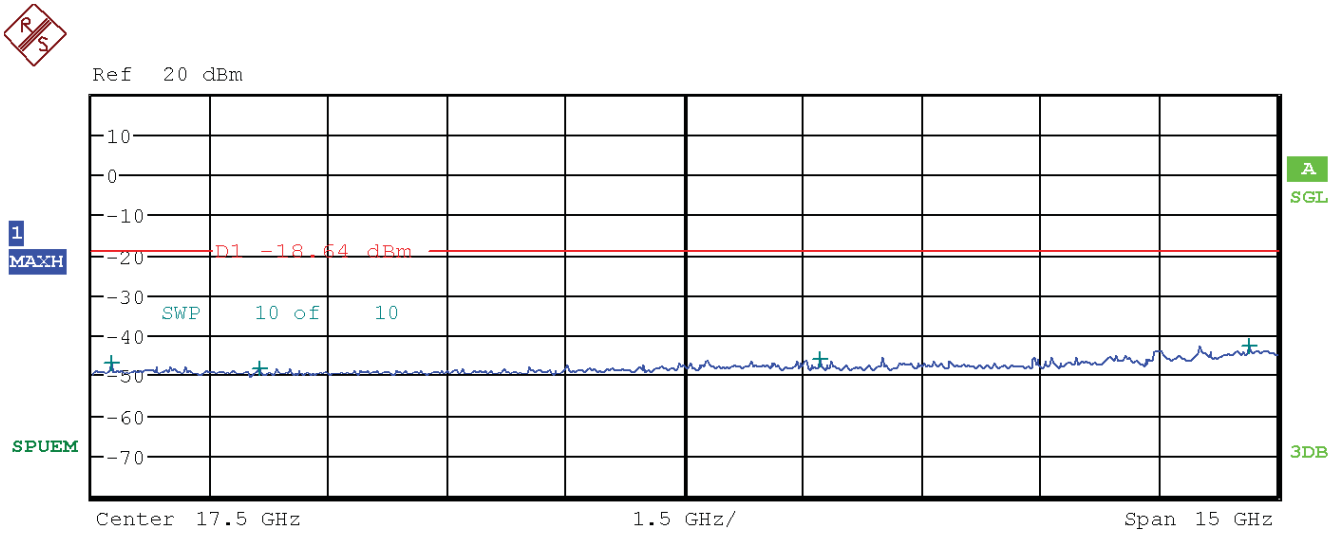
Conducted Spurious Emissions



Conducted Spurious Emissions



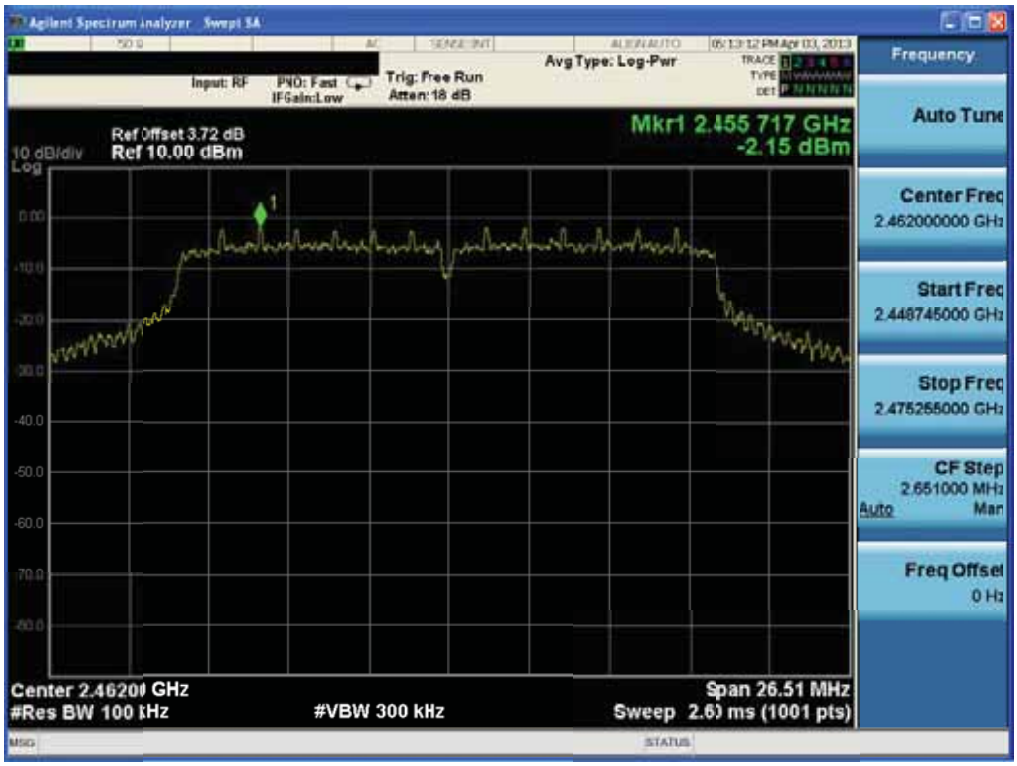
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	122.926000 M	-37.87
1.000 G	2.000 G	1.00 M	1.624500 G	-49.61
2.000 G	2.400 G	1.00 M	2.399640 G	-45.49
2.400 G	2.483 G	1.00 M	2.440806 G	10.52
2.483 G	3.000 G	1.00 M	2.484791 G	-44.02
3.000 G	6.000 G	1.00 M	3.249600 G	-48.13
6.000 G	9.000 G	1.00 M	8.166300 G	-46.81
9.000 G	10.000 G	1.00 M	9.384100 G	-47.98



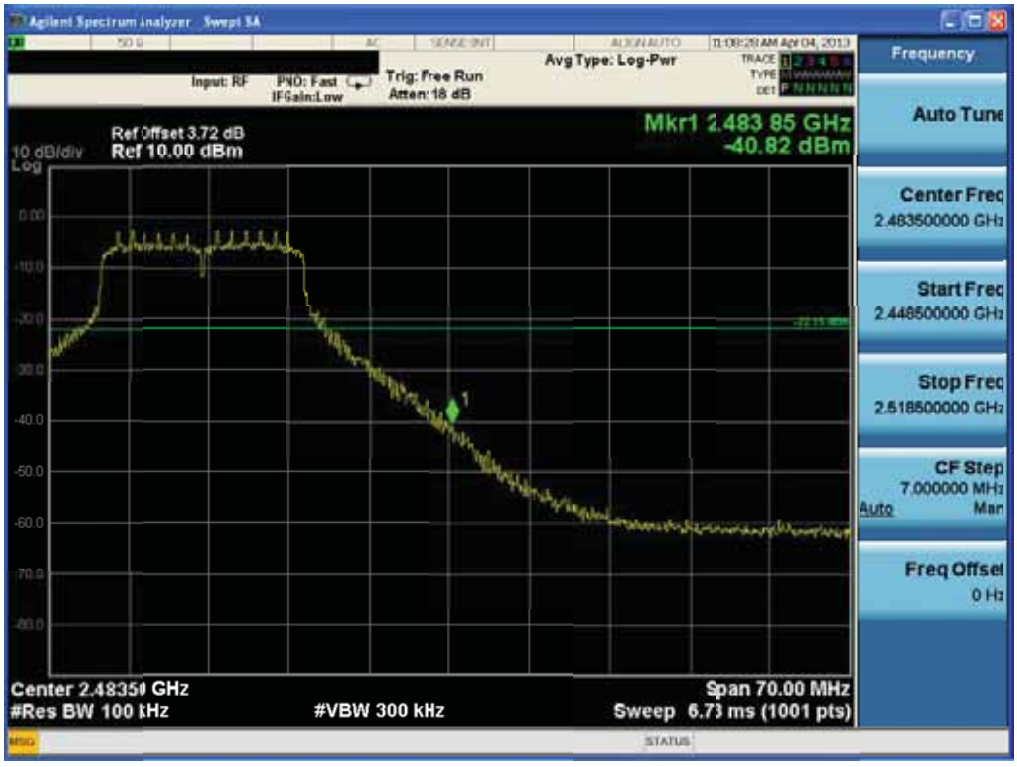
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.251000 G	-46.95
12.000 G	15.000 G	1.00 M	12.124050 G	-48.13
15.000 G	20.000 G	1.00 M	19.212000 G	-46.09
20.000 G	25.000 G	1.00 M	24.640250 G	-42.52

Test Mode: Chain 0 & 802.11n HT20 & MCS 8 & 2462MHz

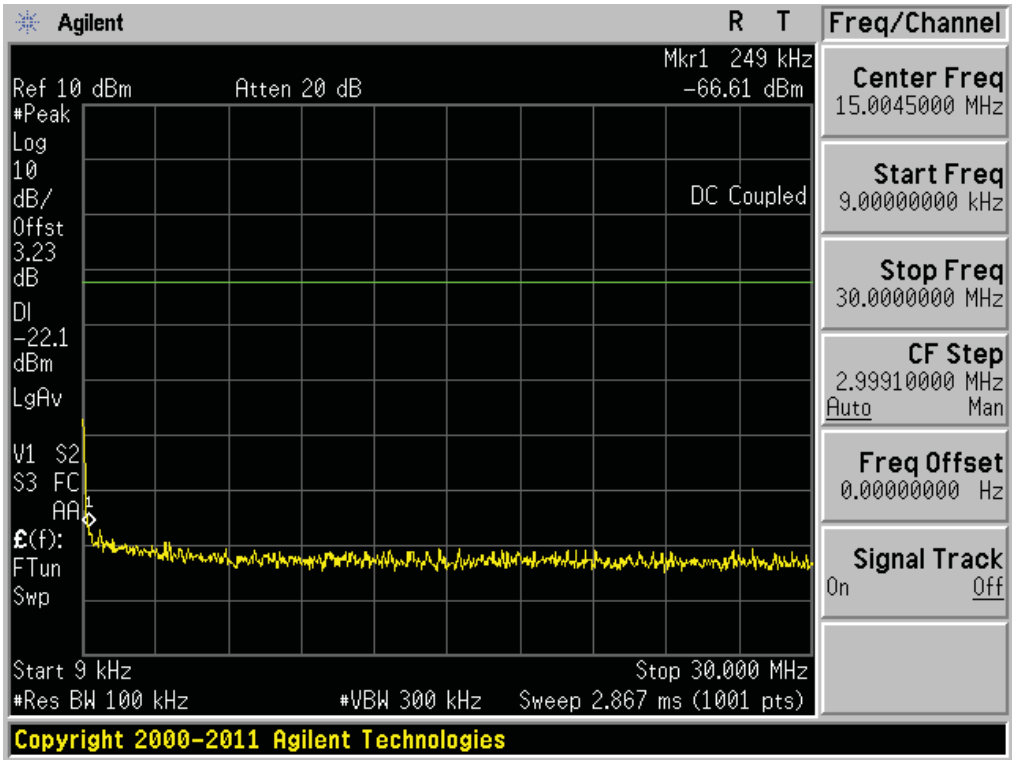
Reference

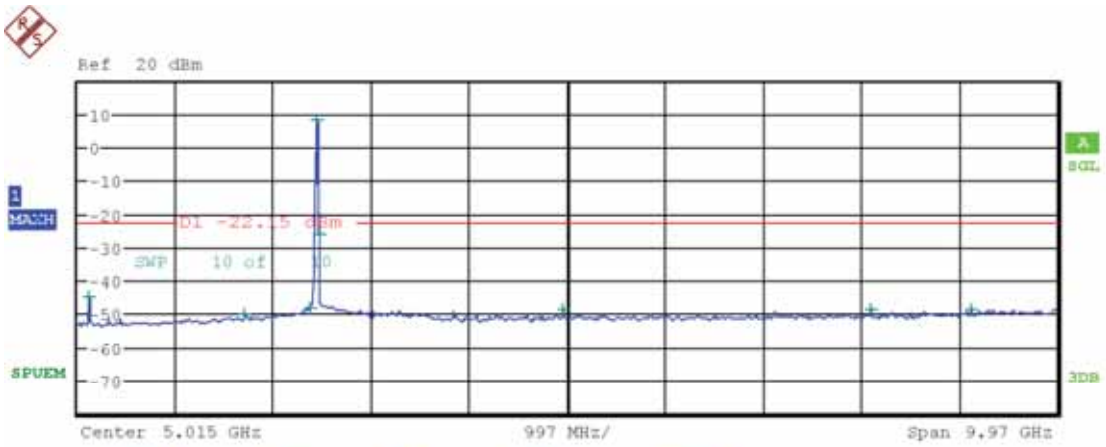


Low Band-edge



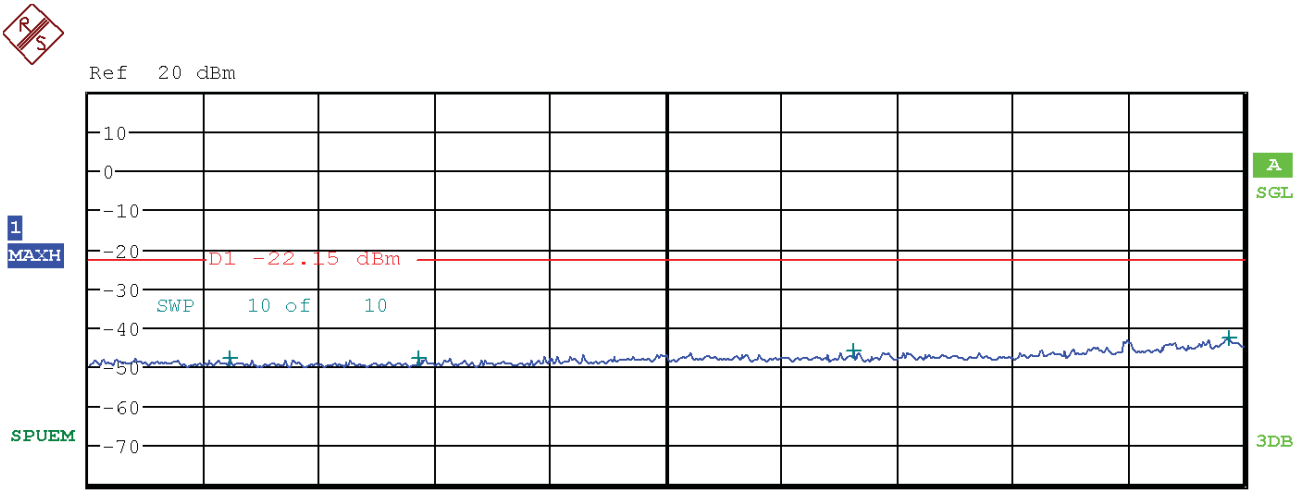
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	147.273000 M	-44.94
1.000 G	2.000 G	1.00 M	1.731600 G	-50.22
2.000 G	2.400 G	1.00 M	2.397120 G	-48.20
2.400 G	2.483 G	1.00 M	2.456730 G	8.04
2.483 G	3.000 G	1.00 M	2.483603 G	-26.08
3.000 G	6.000 G	1.00 M	4.974600 G	-48.93
6.000 G	9.000 G	1.00 M	8.097000 G	-48.95
9.000 G	10.000 G	1.00 M	9.117600 G	-48.61

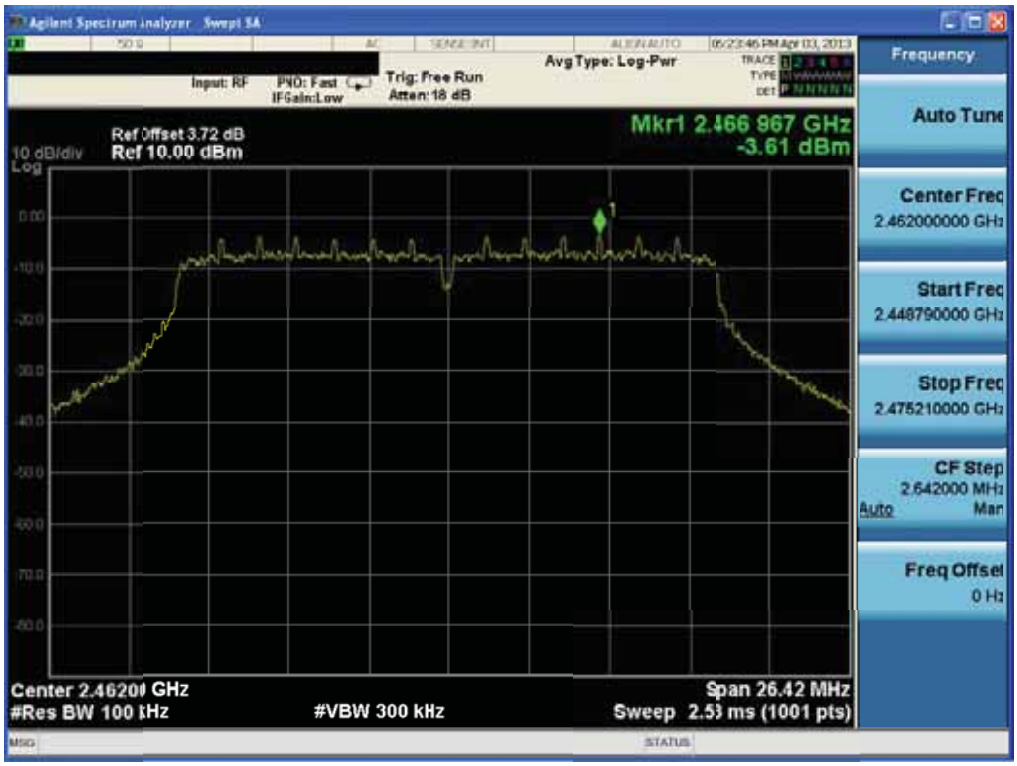
Conducted Spurious Emissions



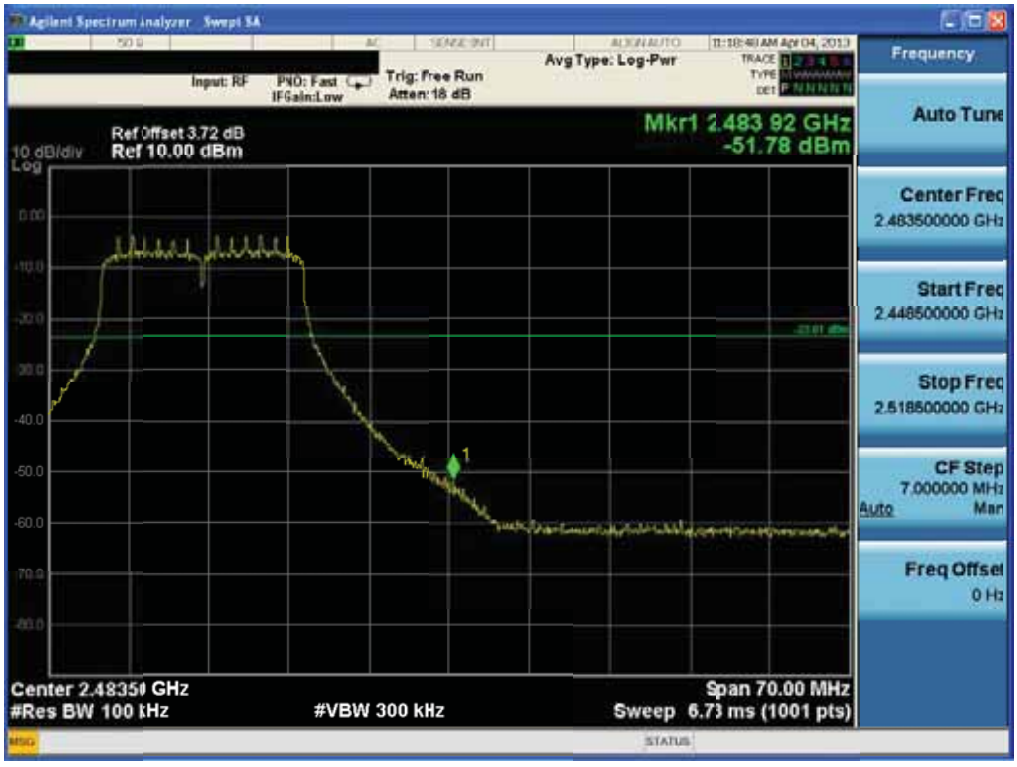
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.822300 G	-47.73
12.000 G	15.000 G	1.00 M	14.278800 G	-47.75
15.000 G	20.000 G	1.00 M	19.930500 G	-45.96
20.000 G	25.000 G	1.00 M	24.797500 G	-42.86

Test Mode: Chain 1 & 802.11n HT20 & MCS 8 & 2462MHz

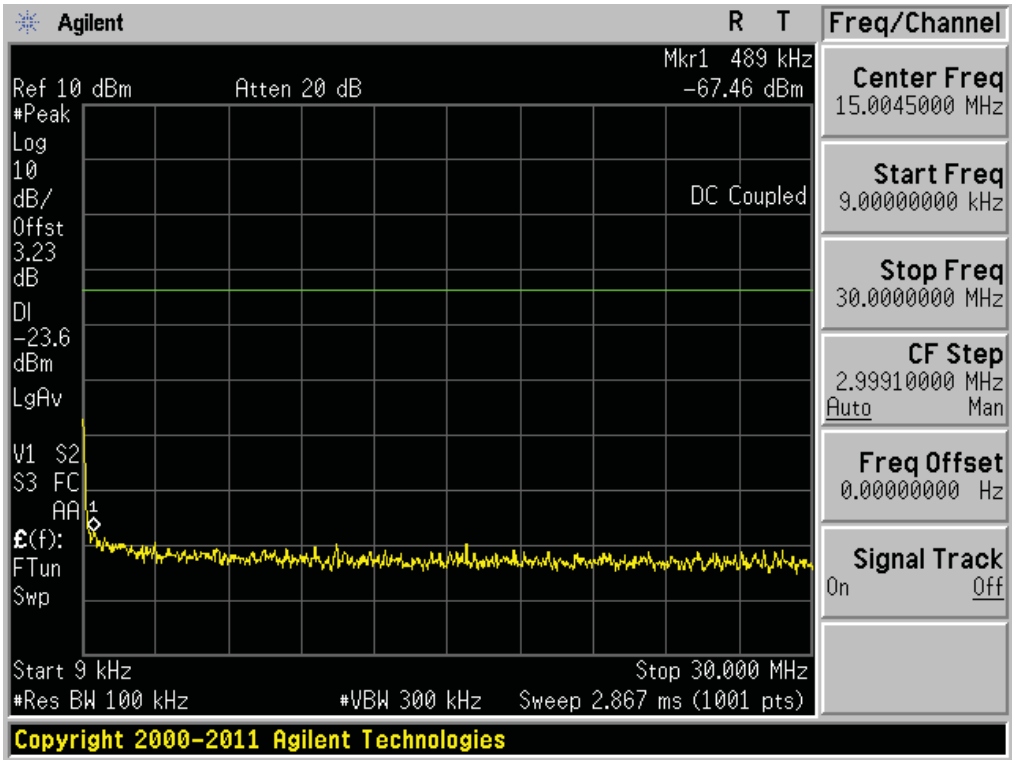
Reference

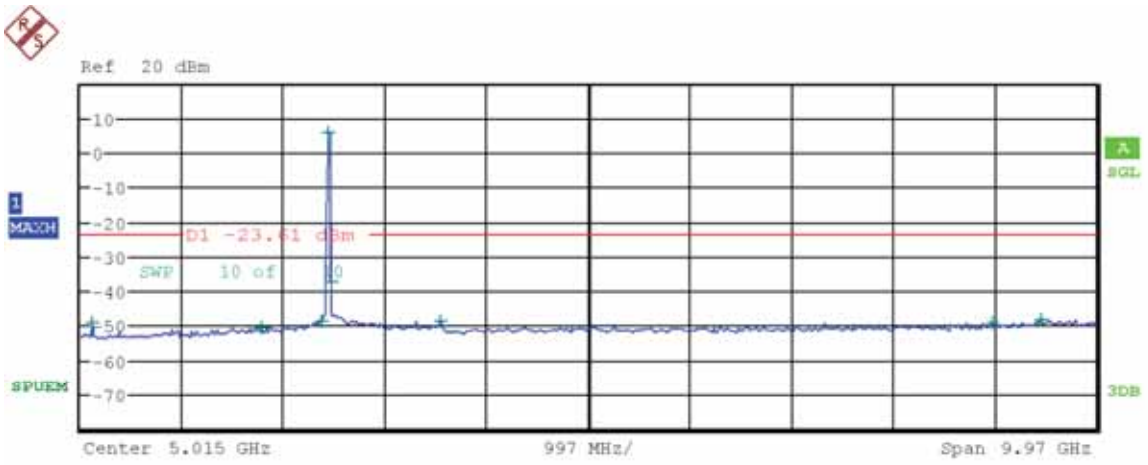


Low Band-edge



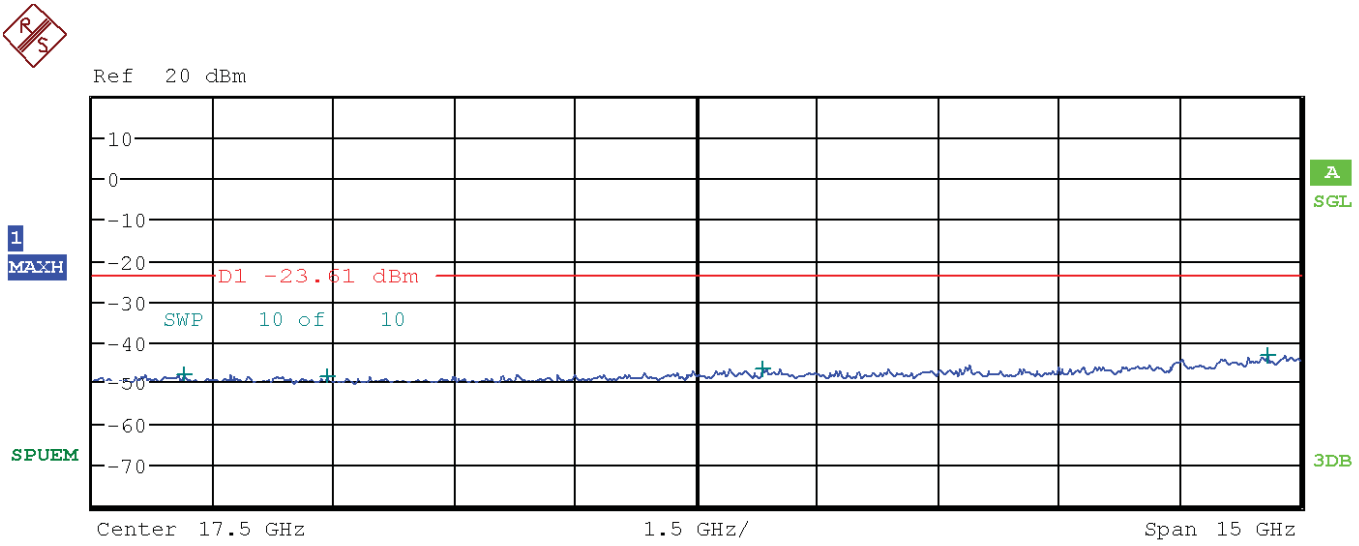
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	148.437000 M	-49.11
1.000 G	2.000 G	1.00 M	1.806900 G	-50.43
2.000 G	2.400 G	1.00 M	2.387680 G	-48.85
2.400 G	2.483 G	1.00 M	2.465798 G	5.71
2.483 G	3.000 G	1.00 M	2.483655 G	-37.53
3.000 G	6.000 G	1.00 M	3.554100 G	-48.61
6.000 G	9.000 G	1.00 M	8.970300 G	-49.09
9.000 G	10.000 G	1.00 M	9.462700 G	-48.39

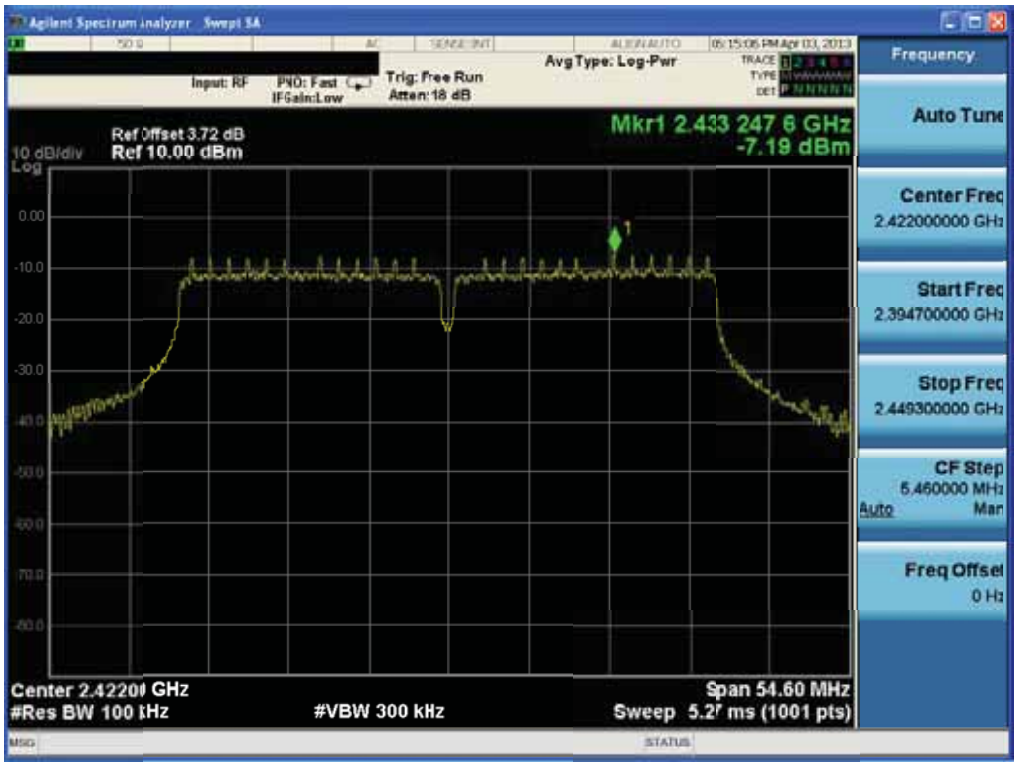
Conducted Spurious Emissions



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.124300 G	-47.90
12.000 G	15.000 G	1.00 M	12.910200 G	-48.17
15.000 G	20.000 G	1.00 M	18.322500 G	-46.20
20.000 G	25.000 G	1.00 M	24.591500 G	-43.23

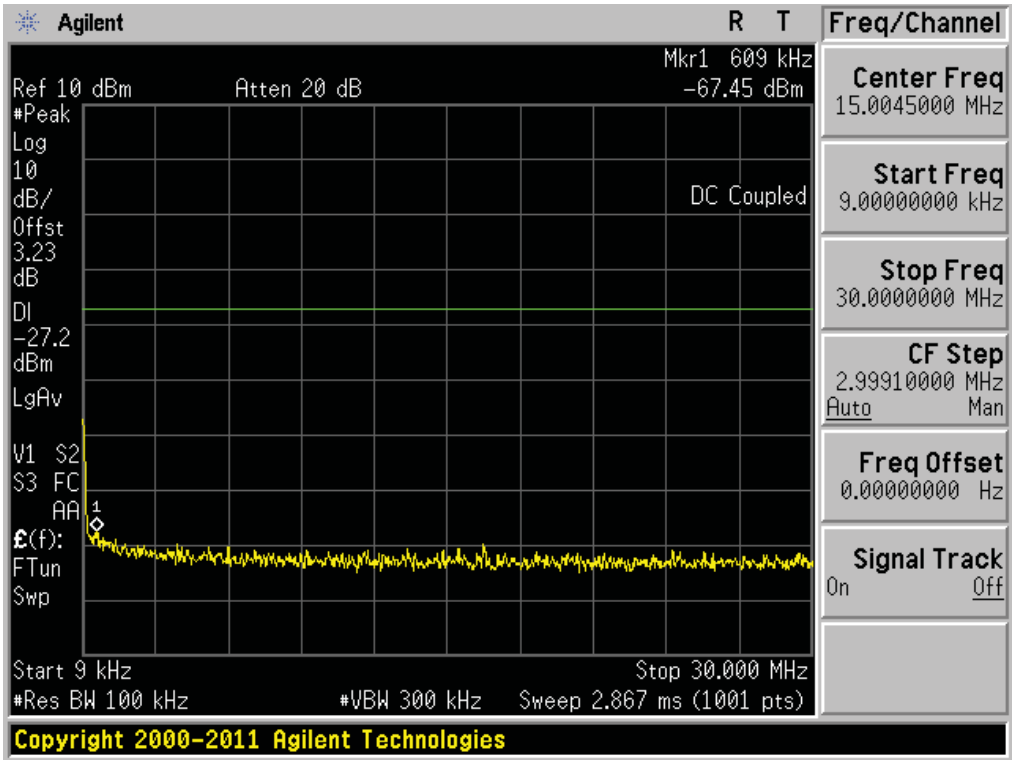
Test Mode: Chain 0 & 802.11n HT40 & MCS 8 & 2422MHz

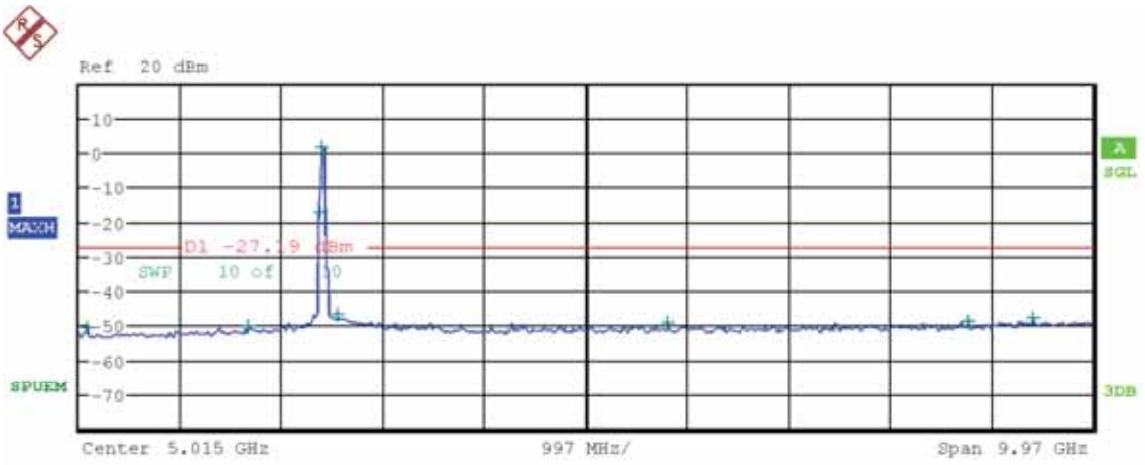
Reference



Low Band-edge

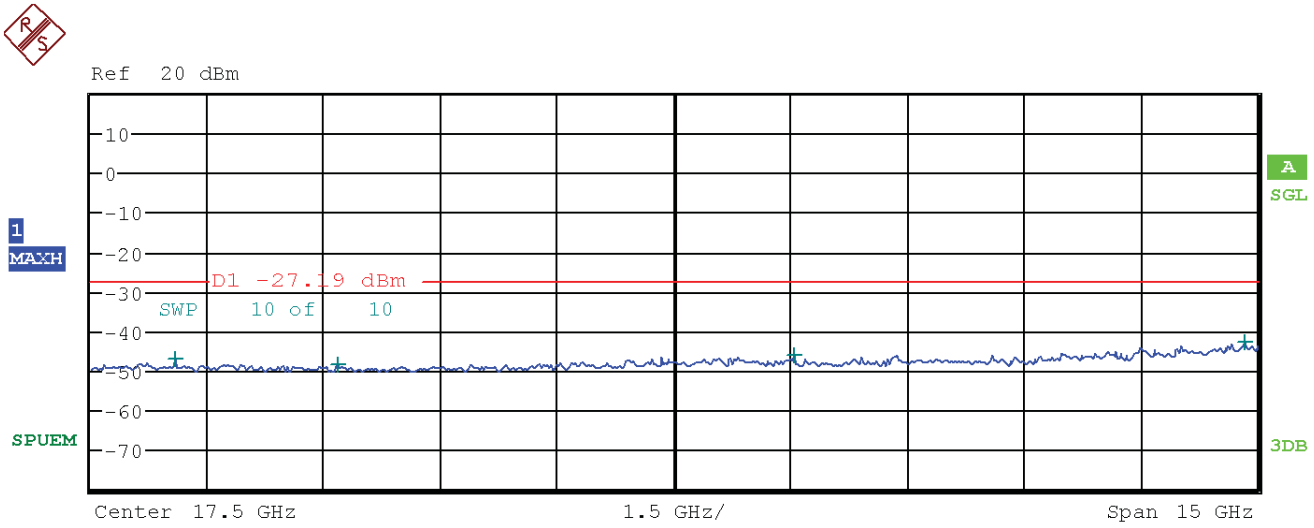
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	107.115000 M	-50.61
1.000 G	2.000 G	1.00 M	1.688000 G	-50.32
2.000 G	2.400 G	1.00 M	2.399880 G	-17.25
2.400 G	2.483 G	1.00 M	2.412450 G	1.58
2.483 G	3.000 G	1.00 M	2.573939 G	-47.09
3.000 G	6.000 G	1.00 M	5.813700 G	-49.20
6.000 G	9.000 G	1.00 M	8.766900 G	-48.80
9.000 G	10.000 G	1.00 M	9.402400 G	-47.89

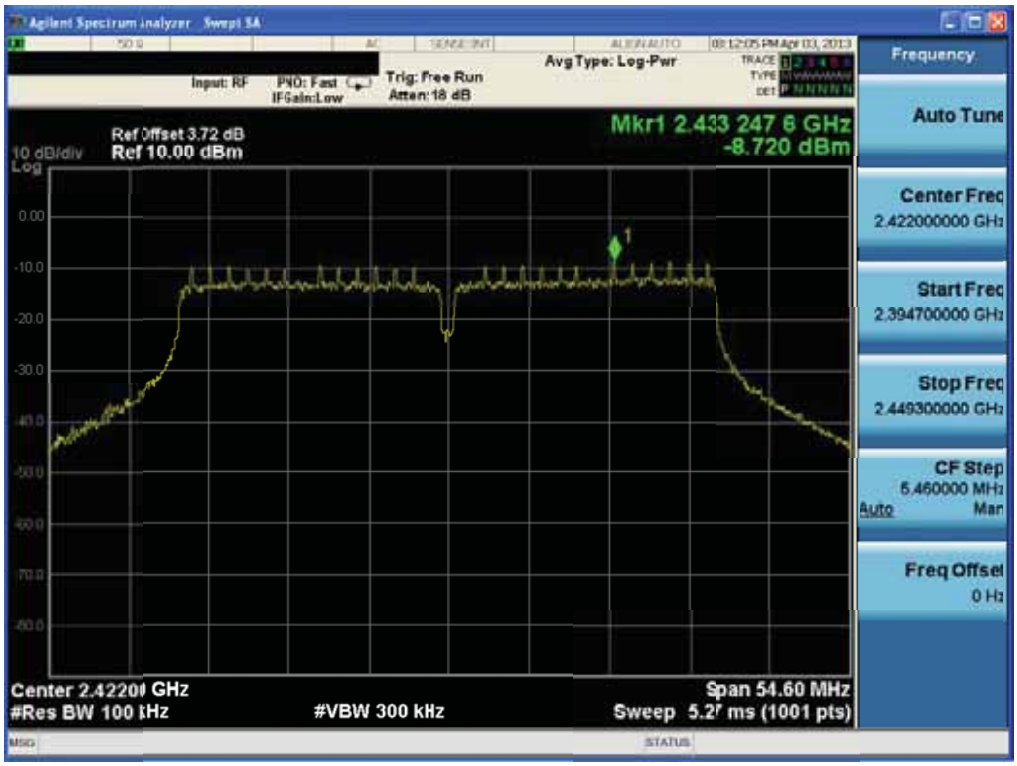
Conducted Spurious Emissions



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.077400 G	-46.89
12.000 G	15.000 G	1.00 M	13.171350 G	-48.23
15.000 G	20.000 G	1.00 M	19.035500 G	-46.02
20.000 G	25.000 G	1.00 M	24.825750 G	-42.48

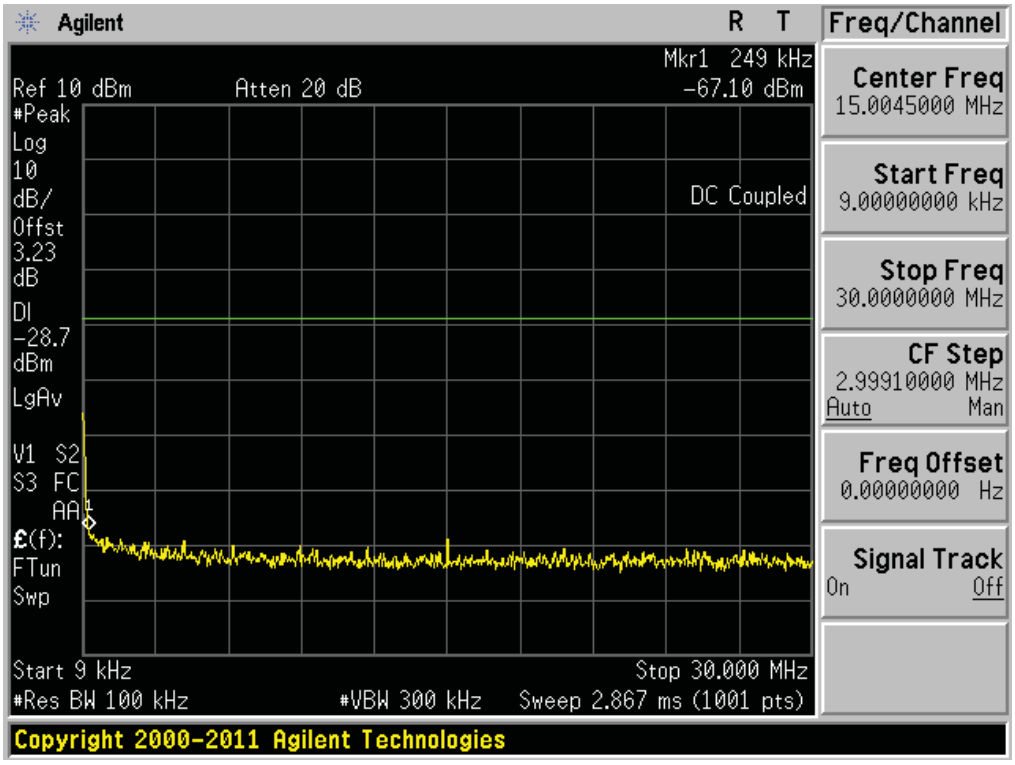
Test Mode: Chain 1 & 802.11n HT40 & MCS 8 & 2422MHz

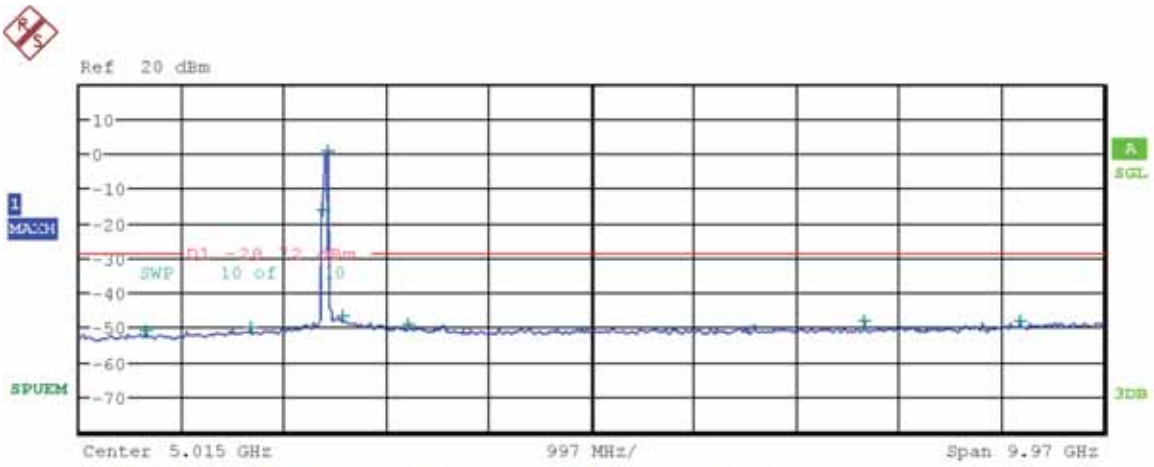
Reference



Low Band-edge

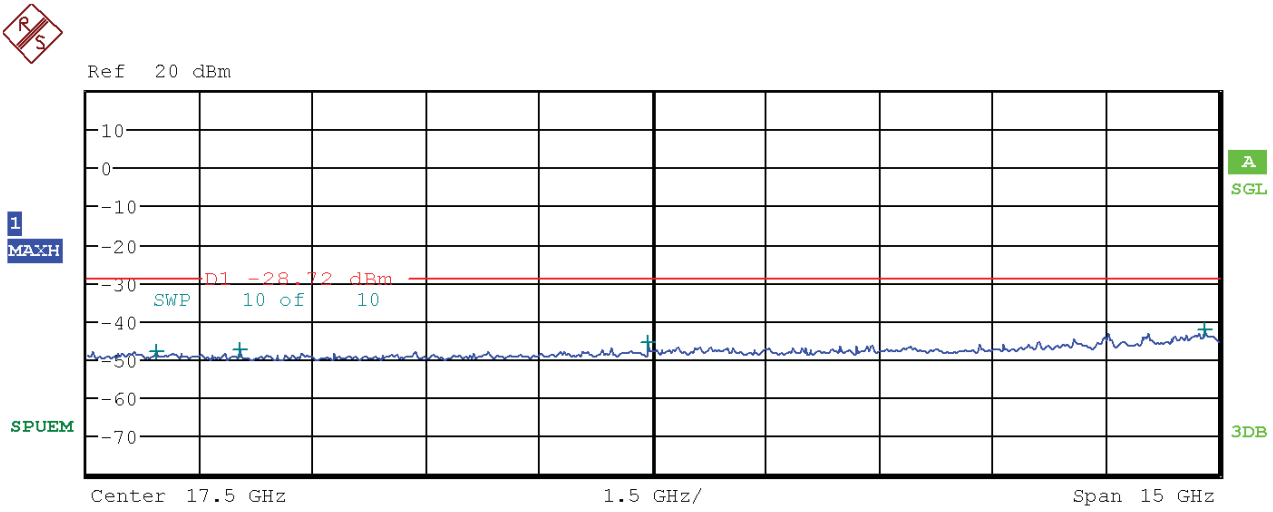
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	666.223000 M	-50.98
1.000 G	2.000 G	1.00 M	1.688700 G	-50.14
2.000 G	2.400 G	1.00 M	2.399640 G	-16.56
2.400 G	2.483 G	1.00 M	2.437742 G	0.34
2.483 G	3.000 G	1.00 M	2.591087 G	-46.98
3.000 G	6.000 G	1.00 M	3.229500 G	-49.46
6.000 G	9.000 G	1.00 M	7.671900 G	-48.29
9.000 G	10.000 G	1.00 M	9.179700 G	-48.51

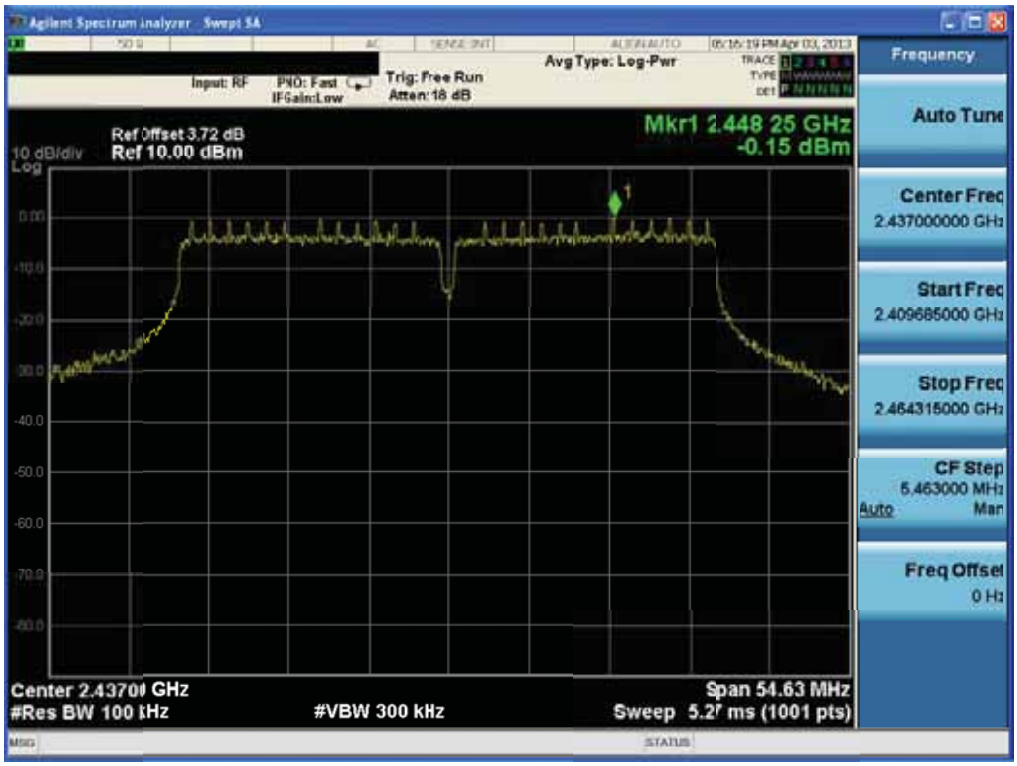
Conducted Spurious Emissions



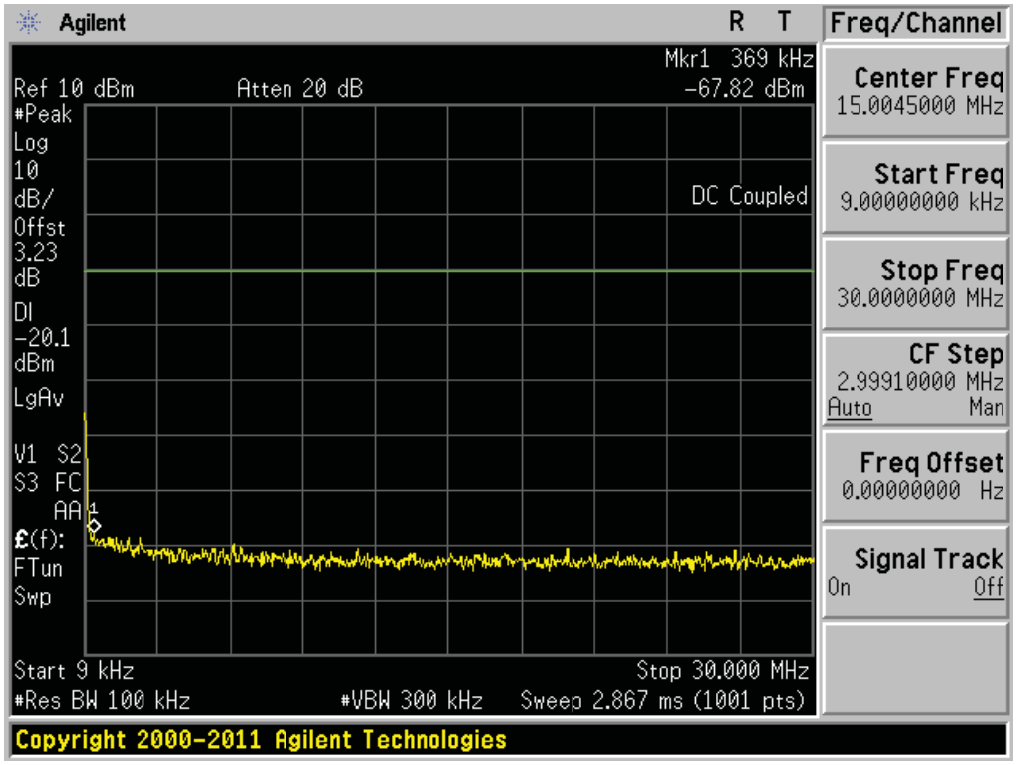
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.913600 G	-47.82
12.000 G	15.000 G	1.00 M	12.020700 G	-47.59
15.000 G	20.000 G	1.00 M	17.429750 G	-45.71
20.000 G	25.000 G	1.00 M	24.811500 G	-42.08

Test Mode: Chain 0 & 802.11n HT40 & MCS 8 & 2437MHz

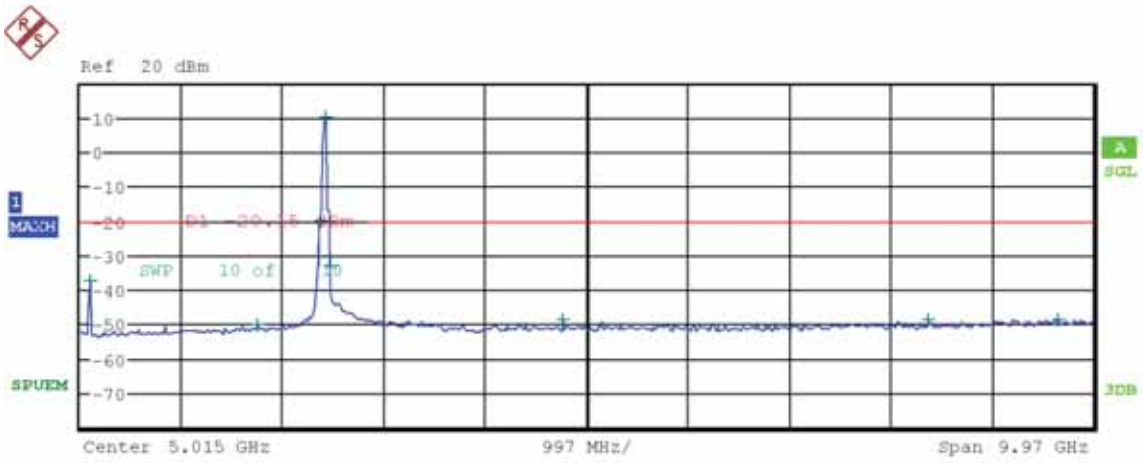
Reference



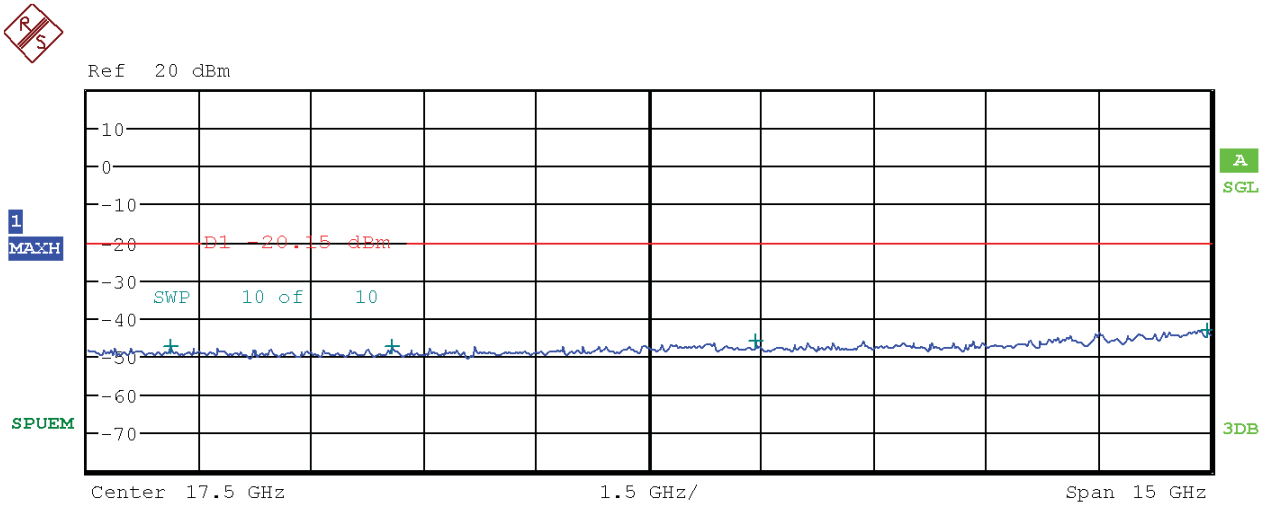
Conducted Spurious Emissions



Conducted Spurious Emissions



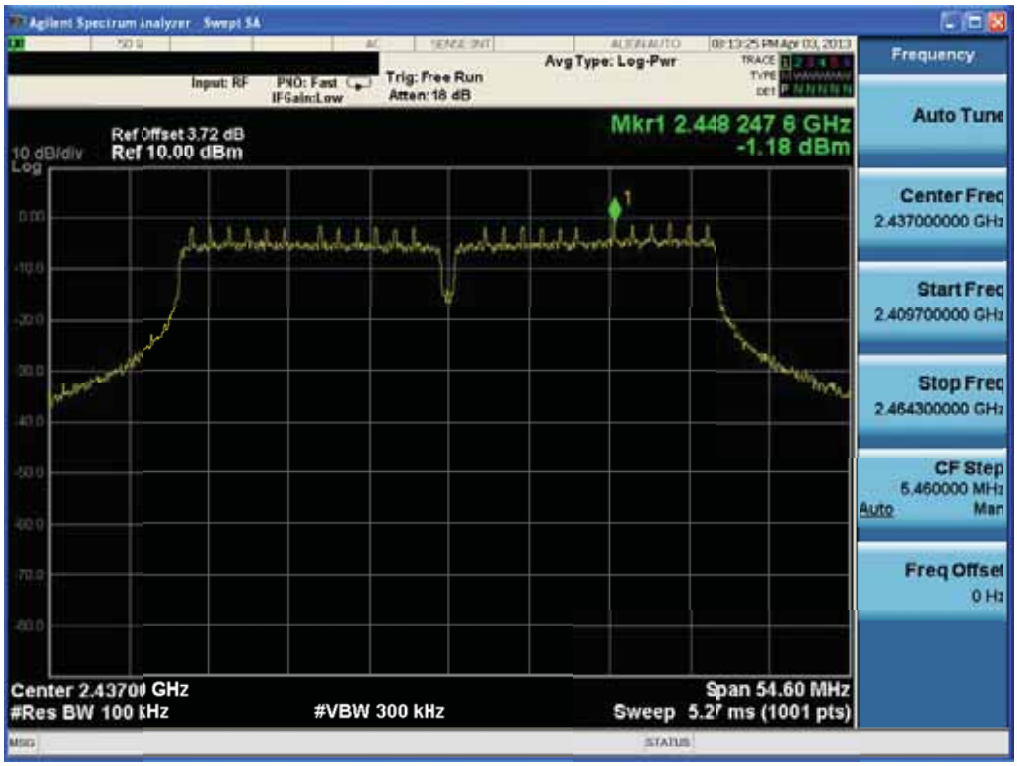
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	123.120000 M	-37.43
1.000 G	2.000 G	1.00 M	1.778400 G	-50.26
2.000 G	2.400 G	1.00 M	2.399960 G	-20.11
2.400 G	2.483 G	1.00 M	2.450092 G	9.75
2.483 G	3.000 G	1.00 M	2.491816 G	-33.19
3.000 G	6.000 G	1.00 M	4.767900 G	-48.96
6.000 G	9.000 G	1.00 M	8.368500 G	-48.76
9.000 G	10.000 G	1.00 M	9.642300 G	-48.67



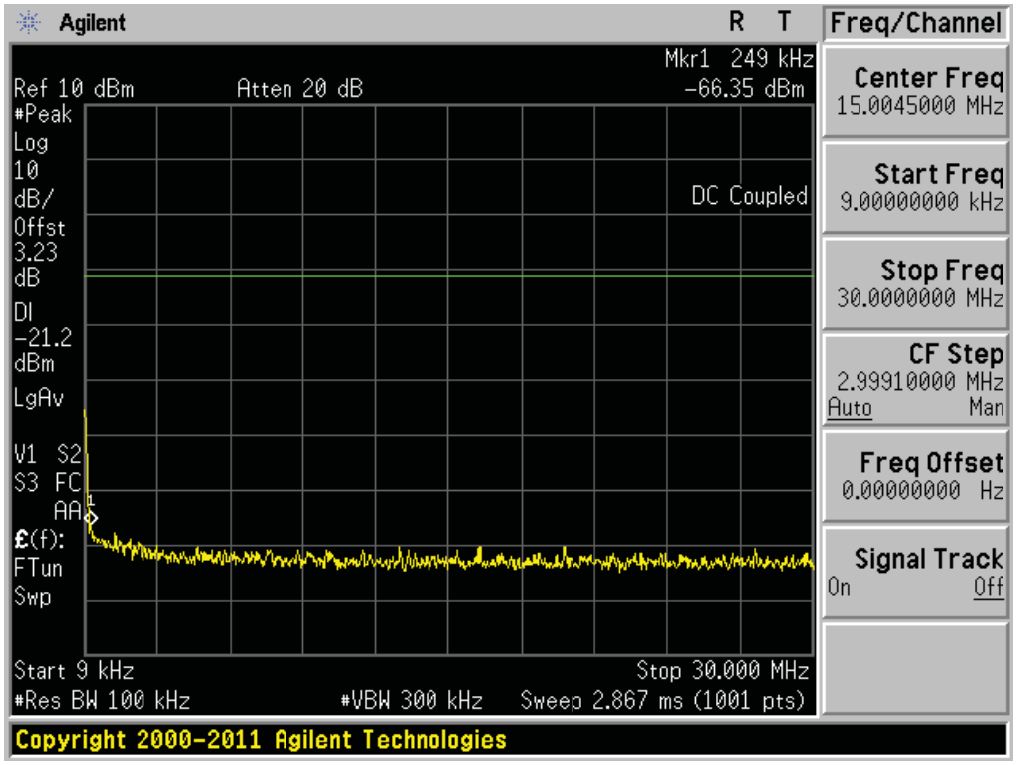
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.105800 G	-47.35
12.000 G	15.000 G	1.00 M	14.068050 G	-47.50
15.000 G	20.000 G	1.00 M	18.921000 G	-46.16
20.000 G	25.000 G	1.00 M	24.940000 G	-43.23

Test Mode: Chain 1 & 802.11n HT40 & MCS 8 & 2437MHz

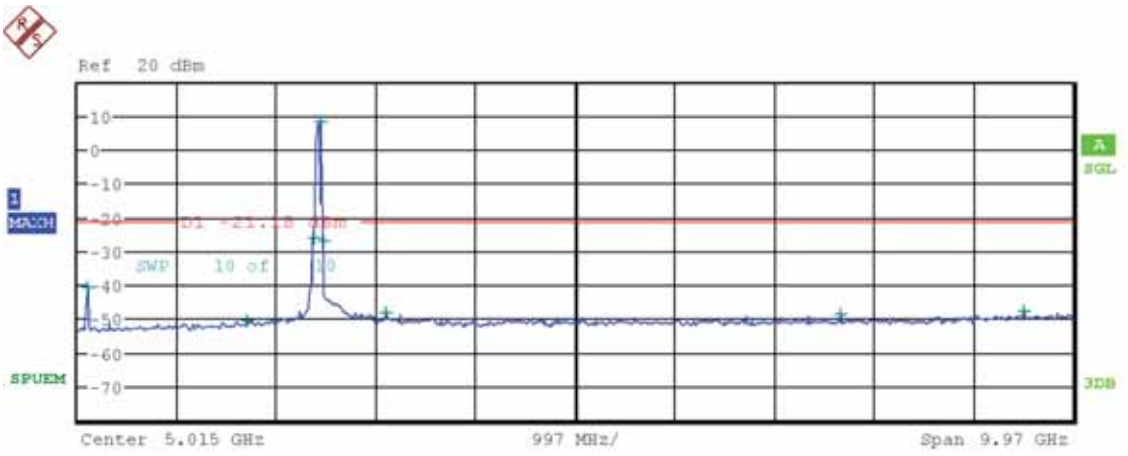
Reference



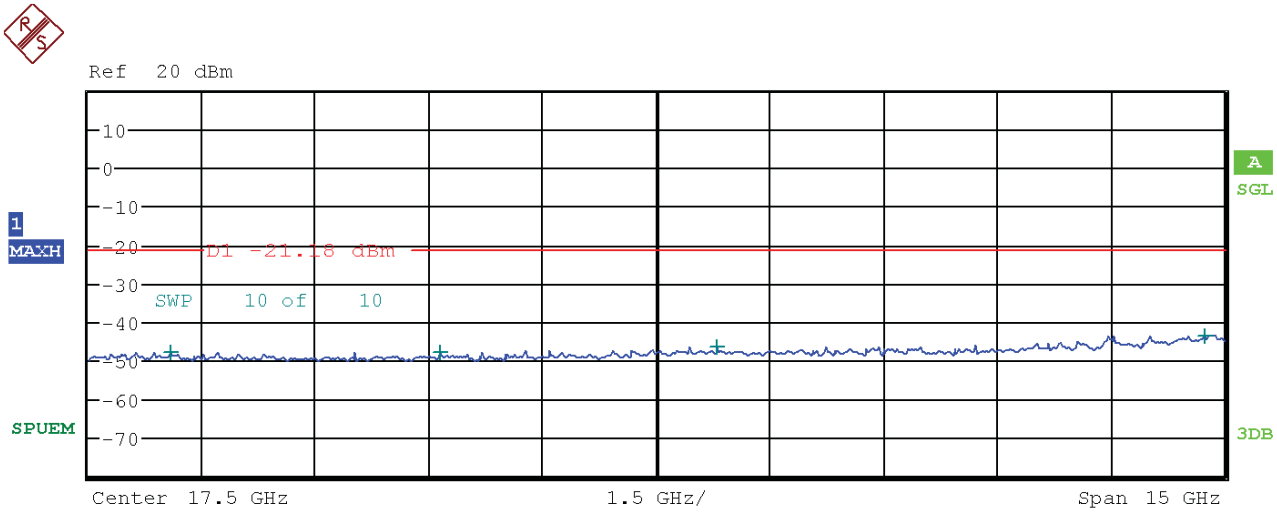
Conducted Spurious Emissions



Conducted Spurious Emissions



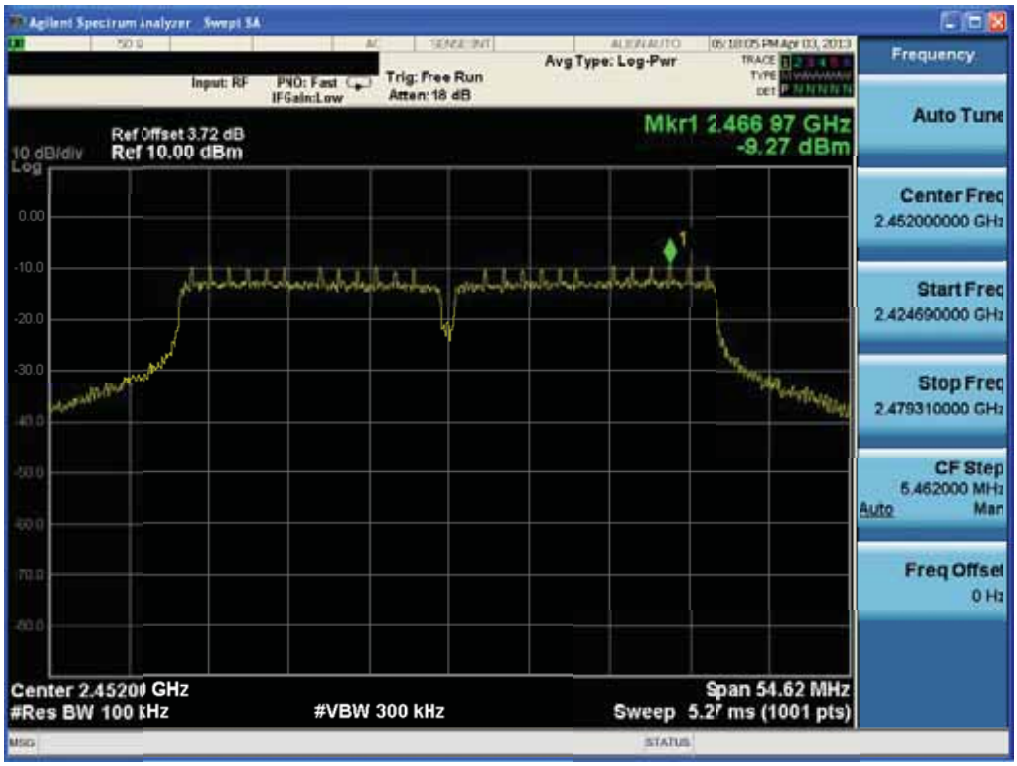
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	122.732000 M	-40.58
1.000 G	2.000 G	1.00 M	1.728100 G	-50.73
2.000 G	2.400 G	1.00 M	2.400000 G	-26.20
2.400 G	2.483 G	1.00 M	2.451603 G	7.90
2.483 G	3.000 G	1.00 M	2.483758 G	-27.09
3.000 G	6.000 G	1.00 M	3.120600 G	-48.35
6.000 G	9.000 G	1.00 M	7.674000 G	-48.99
9.000 G	10.000 G	1.00 M	9.510000 G	-47.82



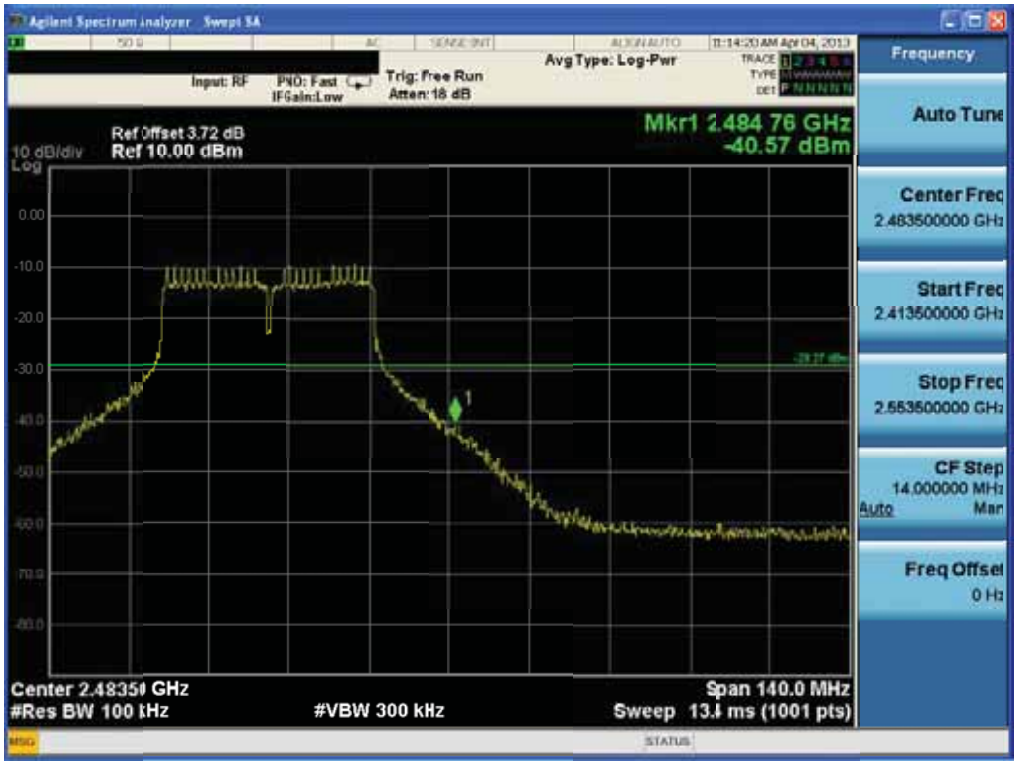
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.091100 G	-47.91
12.000 G	15.000 G	1.00 M	14.640000 G	-47.89
15.000 G	20.000 G	1.00 M	18.294250 G	-46.49
20.000 G	25.000 G	1.00 M	24.728000 G	-43.38

Test Mode: Chain 0 & 802.11n HT40 & MCS 8 & 2452MHz

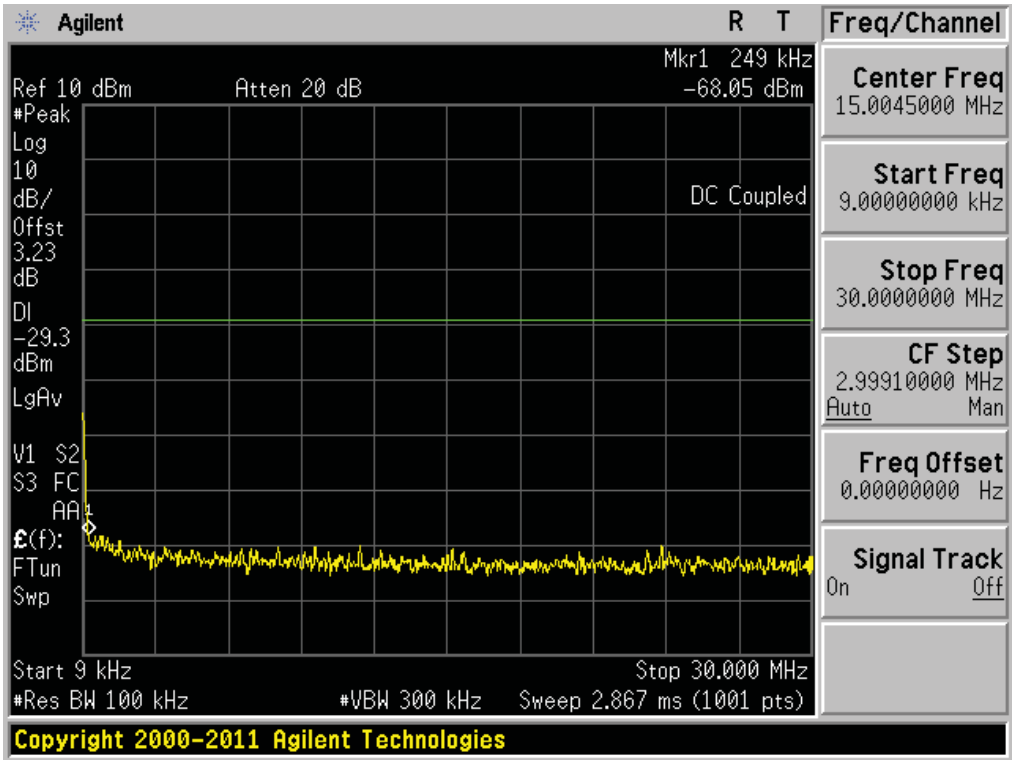
Reference

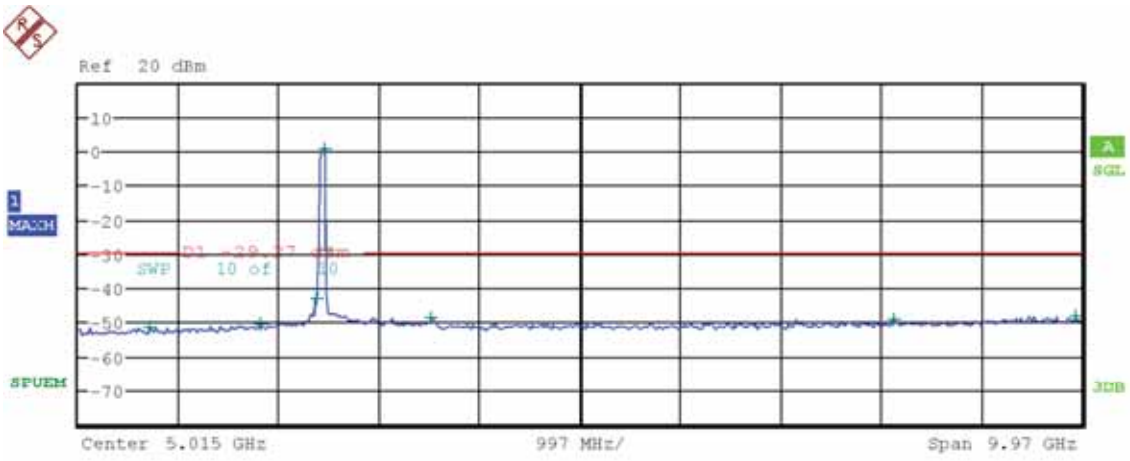


Low Band-edge



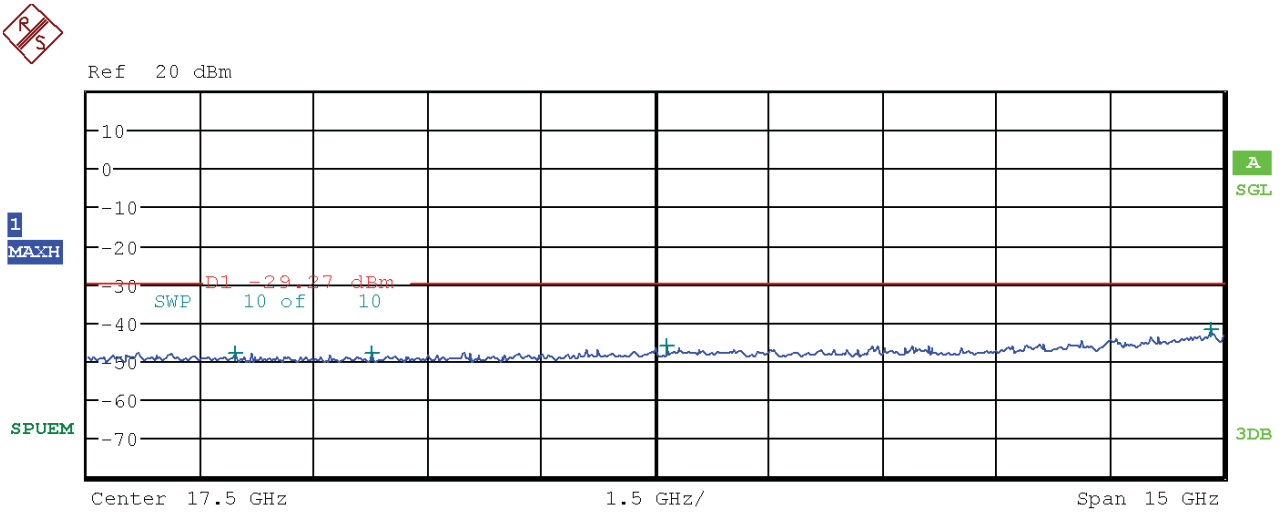
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	728.497000 M	-51.43
1.000 G	2.000 G	1.00 M	1.833300 G	-50.84
2.000 G	2.400 G	1.00 M	2.399080 G	-43.33
2.400 G	2.483 G	1.00 M	2.467218 G	0.38
2.483 G	3.000 G	1.00 M	2.485359 G	-29.07
3.000 G	6.000 G	1.00 M	3.525900 G	-48.72
6.000 G	9.000 G	1.00 M	8.129700 G	-49.10
9.000 G	10.000 G	1.00 M	9.941400 G	-48.33

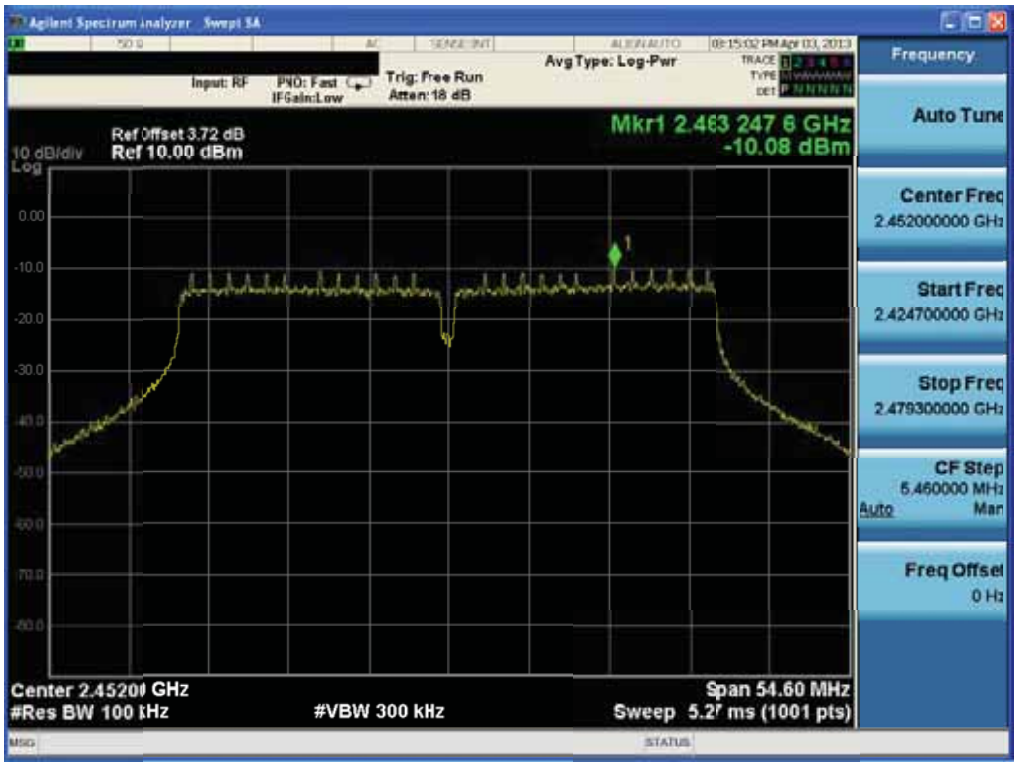
Conducted Spurious Emissions



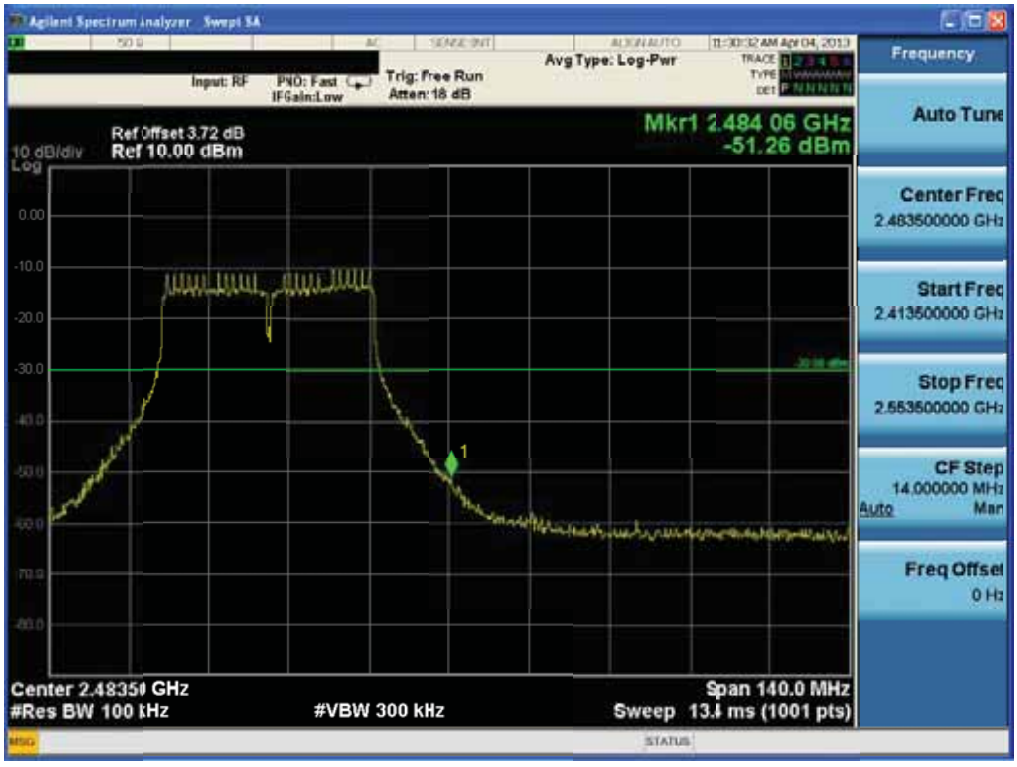
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.948600 G	-47.74
12.000 G	15.000 G	1.00 M	13.744950 G	-47.80
15.000 G	20.000 G	1.00 M	17.648250 G	-45.75
20.000 G	25.000 G	1.00 M	24.835500 G	-41.66

Test Mode: Chain 1 & 802.11n HT40 & MCS 8 & 2452MHz

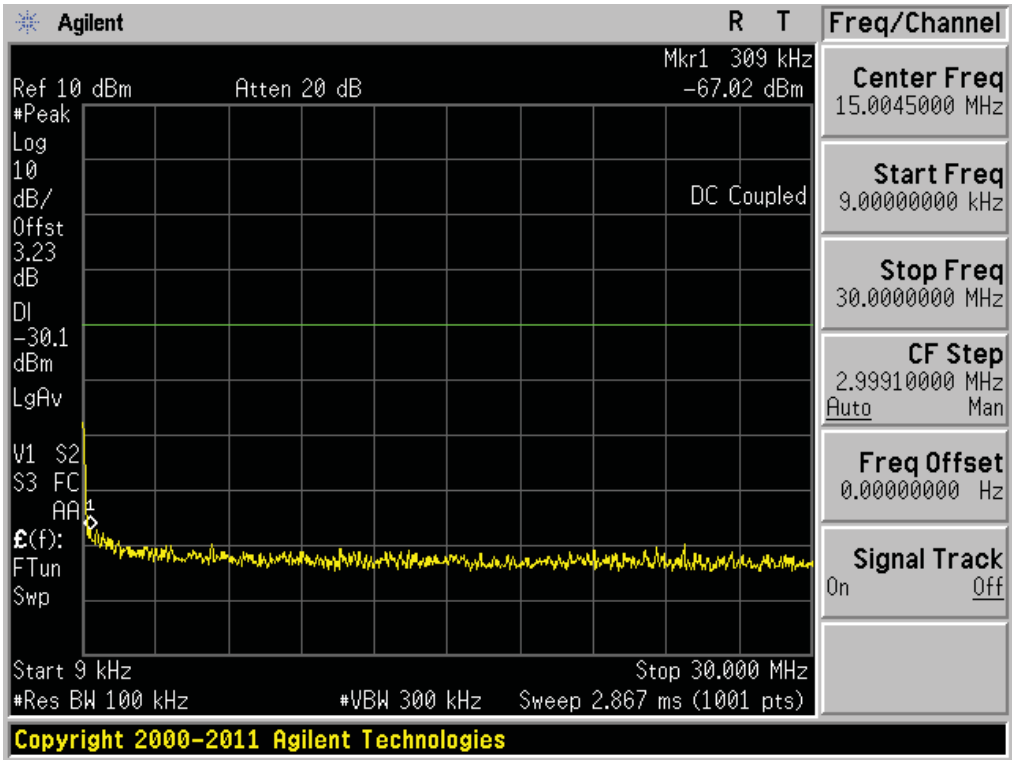
Reference

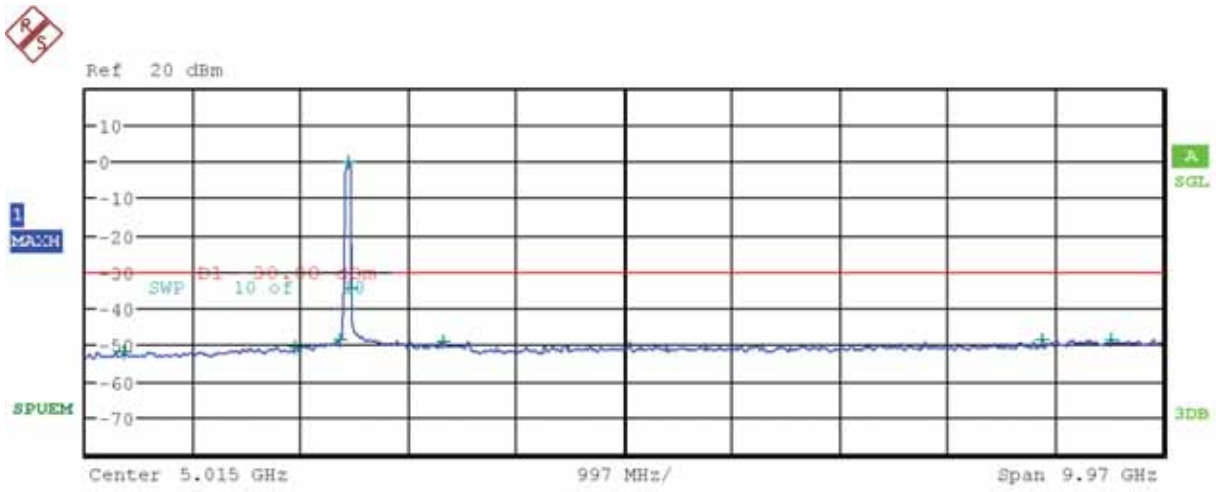


Low Band-edge



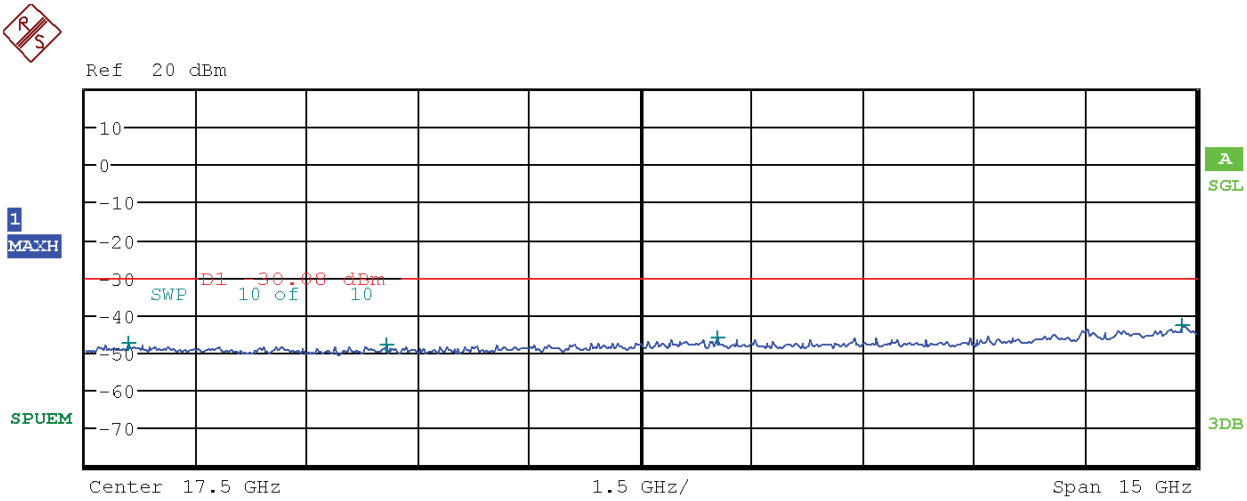
Conducted Spurious Emissions





Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	375.223000 M	-52.01
1.000 G	2.000 G	1.00 M	1.960100 G	-50.49
2.000 G	2.400 G	1.00 M	2.382720 G	-48.70
2.400 G	2.483 G	1.00 M	2.457440 G	-0.53
2.483 G	3.000 G	1.00 M	2.484017 G	-34.75
3.000 G	6.000 G	1.00 M	3.342600 G	-49.16
6.000 G	9.000 G	1.00 M	8.887200 G	-48.81
9.000 G	10.000 G	1.00 M	9.520100 G	-48.78

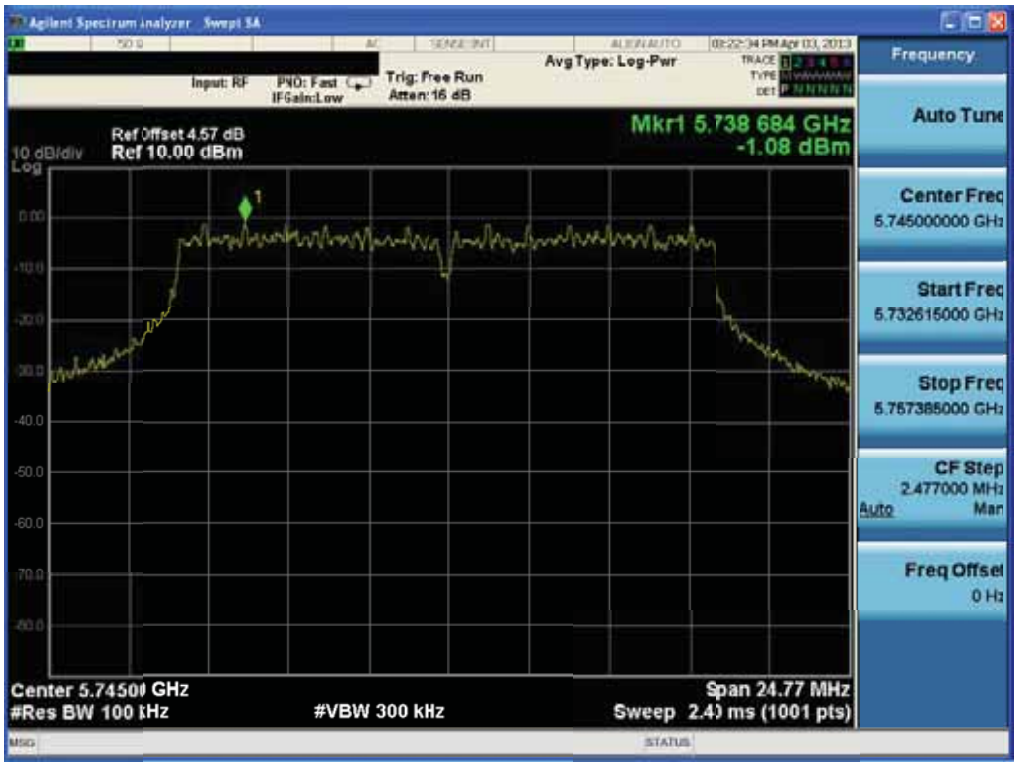
Conducted Spurious Emissions



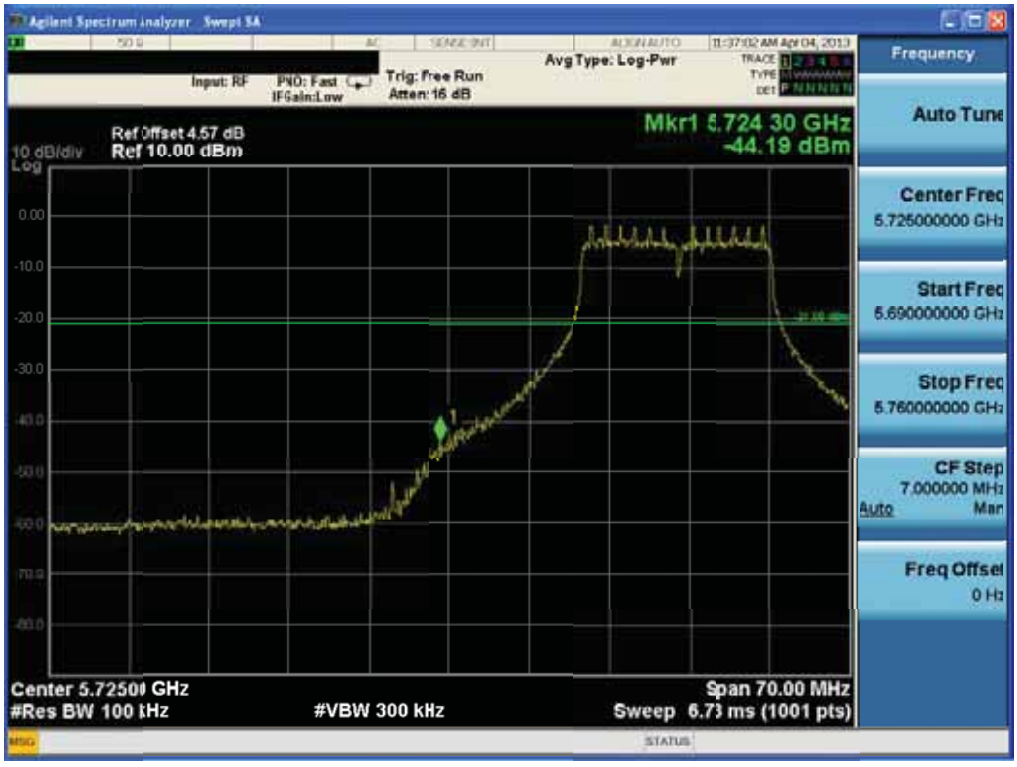
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.585000 G	-47.40
12.000 G	15.000 G	1.00 M	14.069100 G	-48.05
15.000 G	20.000 G	1.00 M	18.534250 G	-46.19
20.000 G	25.000 G	1.00 M	24.810250 G	-42.79

Test Mode: Chain 0 & 802.11a & 24Mbps & 5745MHz

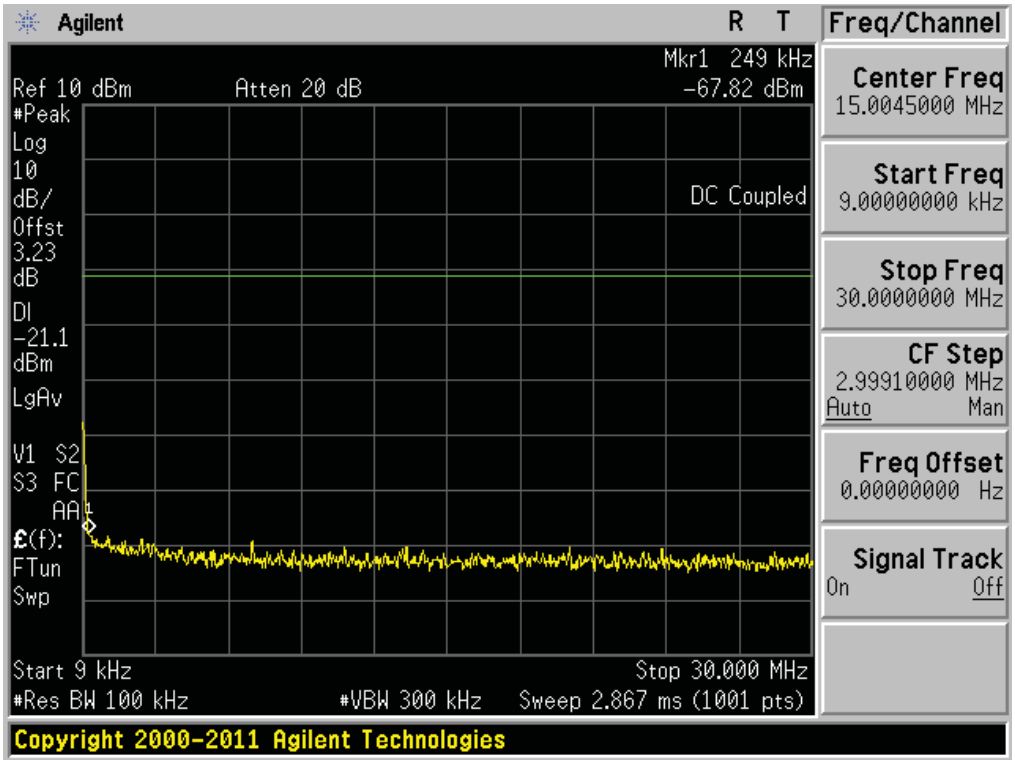
Reference



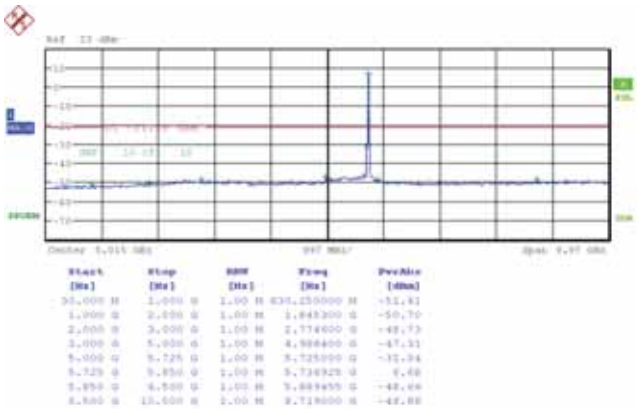
Low Band-edge

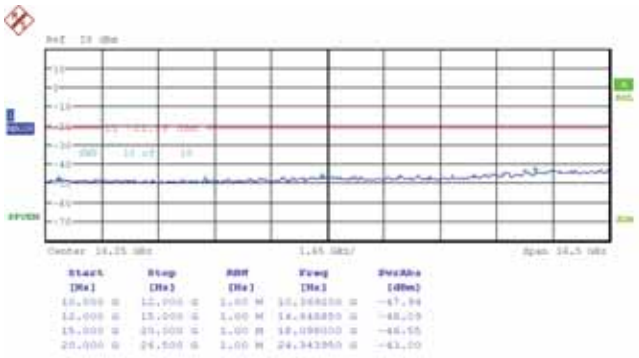


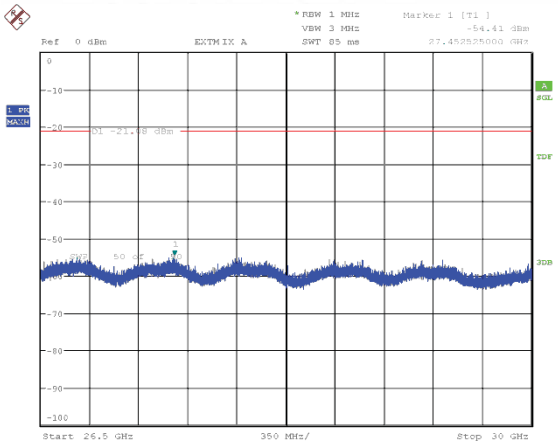
Conducted Spurious Emissions

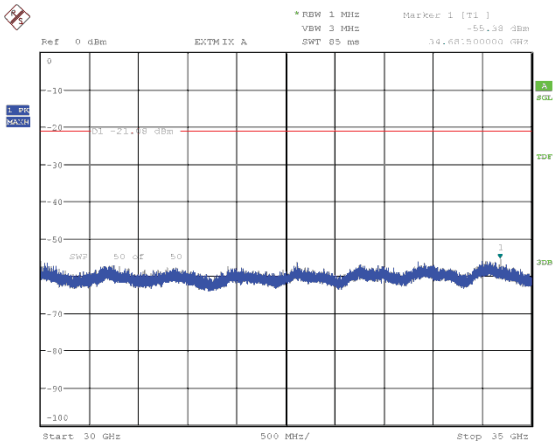


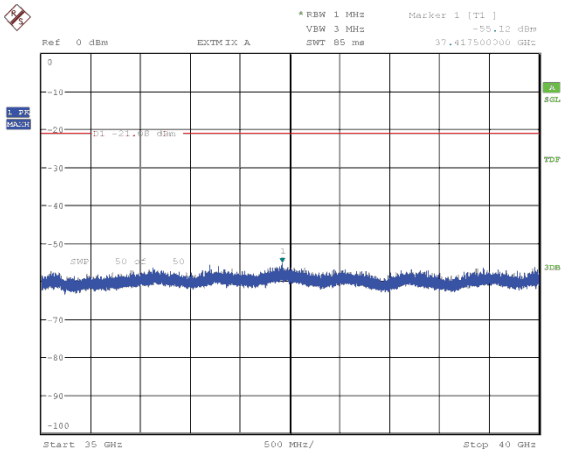
Conducted Spurious Emissions





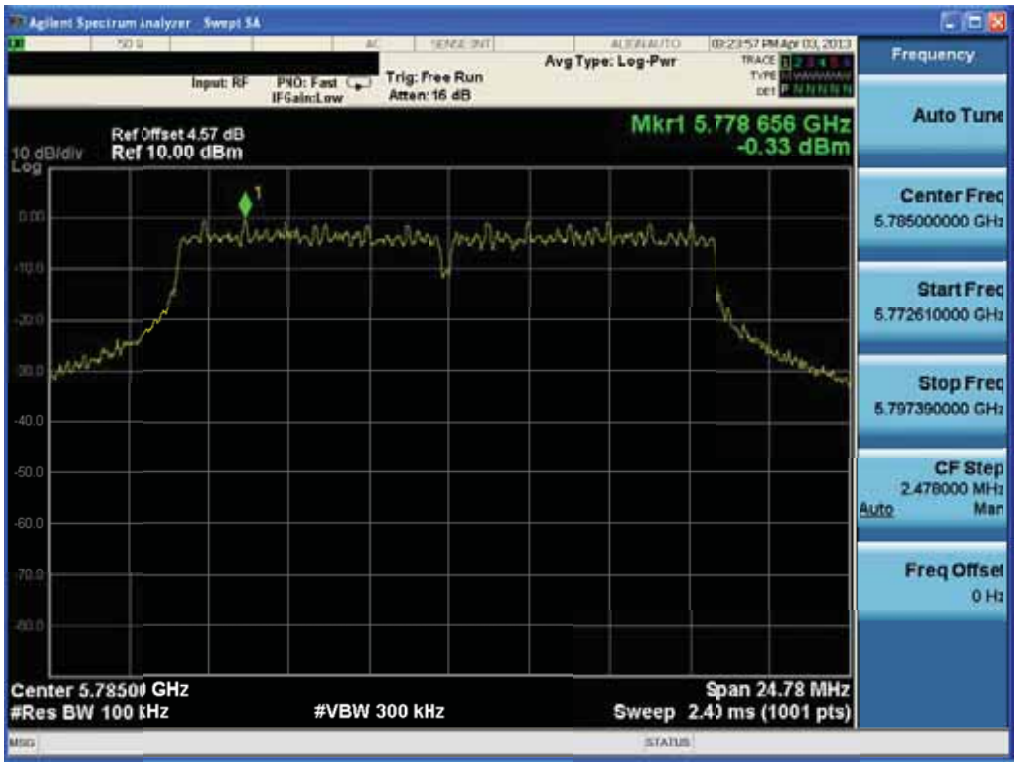




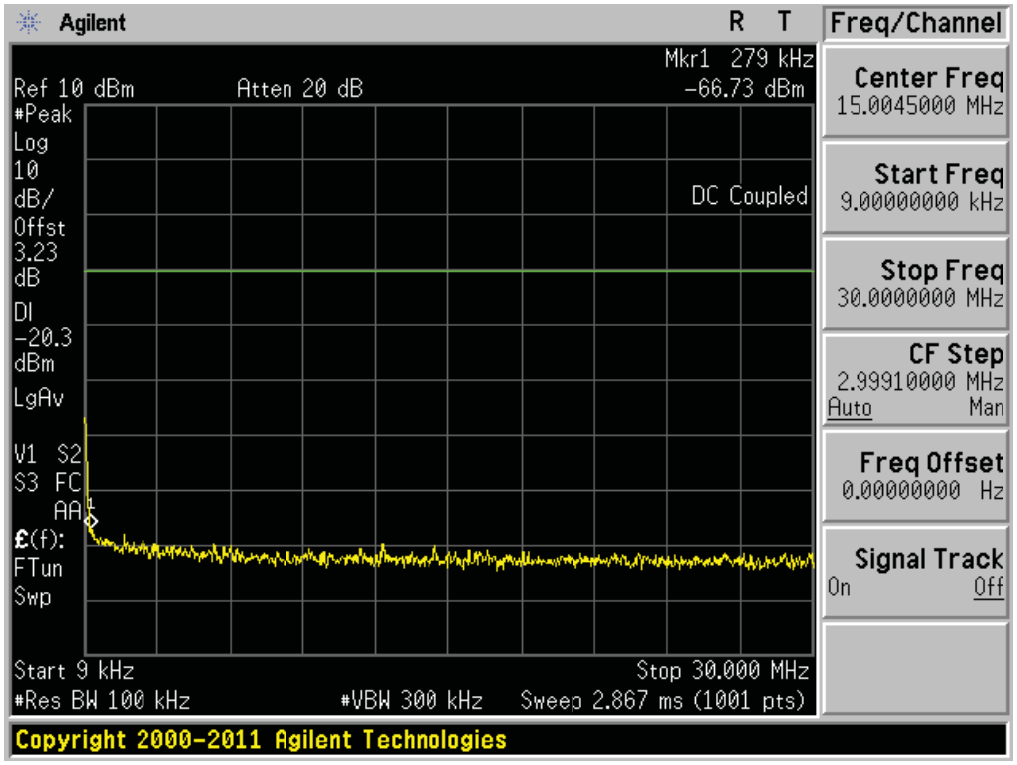


Test Mode: Chain 0 & 802.11a & 24Mbps & 5785MHz

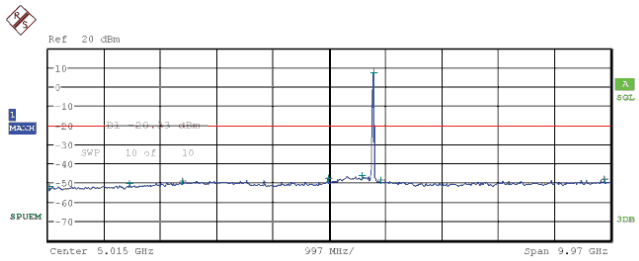
Reference



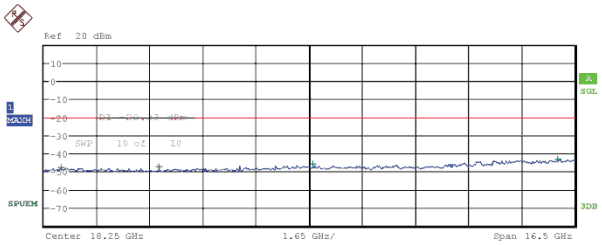
Conducted Spurious Emissions



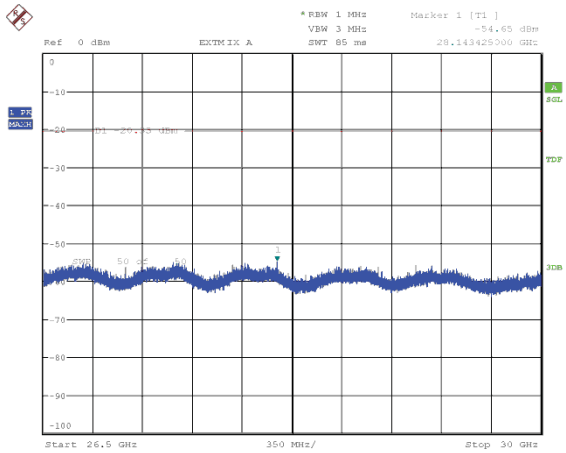
Conducted Spurious Emissions

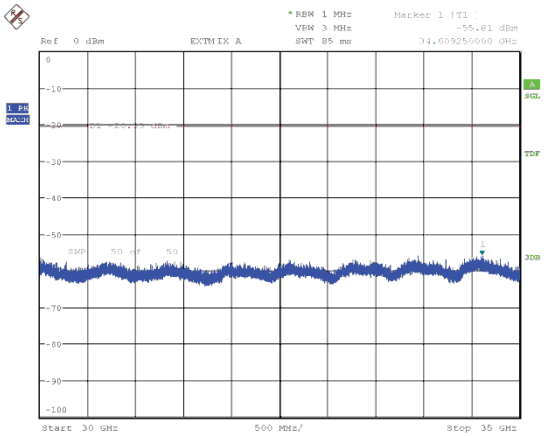


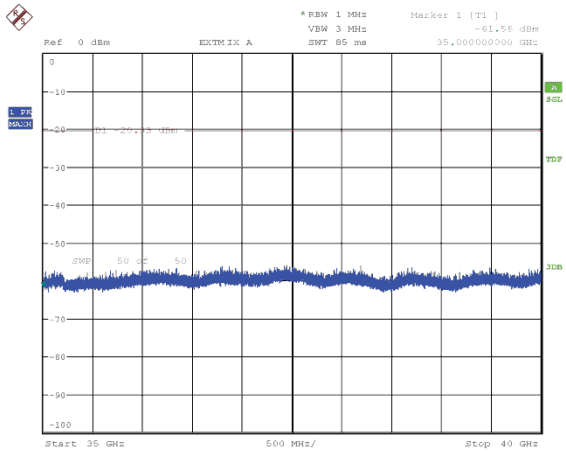
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	46.878000 M	-52.01
1.000 G	2.000 G	1.00 M	1.462600 G	-50.83
2.000 G	3.000 G	1.00 M	2.408500 G	-49.05
3.000 G	5.000 G	1.00 M	4.999000 G	-47.69
5.000 G	5.725 G	1.00 M	5.588192 G	-46.61
5.725 G	5.850 G	1.00 M	5.790525 G	6.85
5.850 G	6.500 G	1.00 M	5.925855 G	-48.88
6.500 G	10.000 G	1.00 M	9.883450 G	-48.51



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.535800 G	-47.89
12.000 G	15.000 G	1.00 M	13.565400 G	-47.20
15.000 G	20.000 G	1.00 M	18.368500 G	-46.19
20.000 G	26.500 G	1.00 M	25.959850 G	-43.04

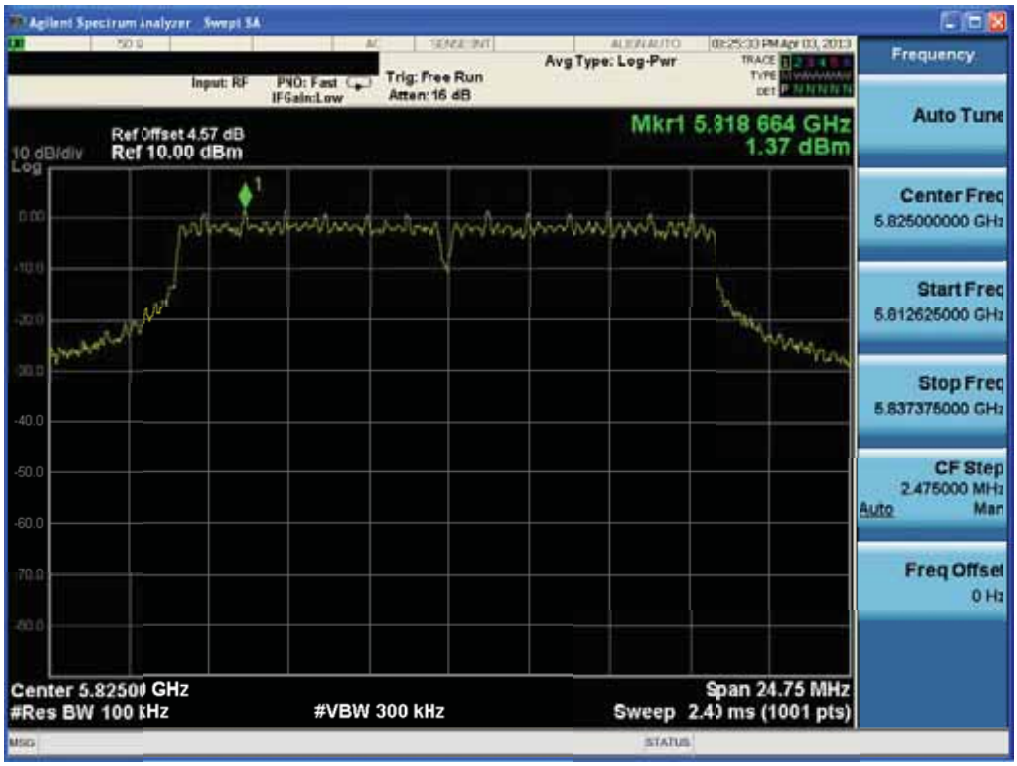






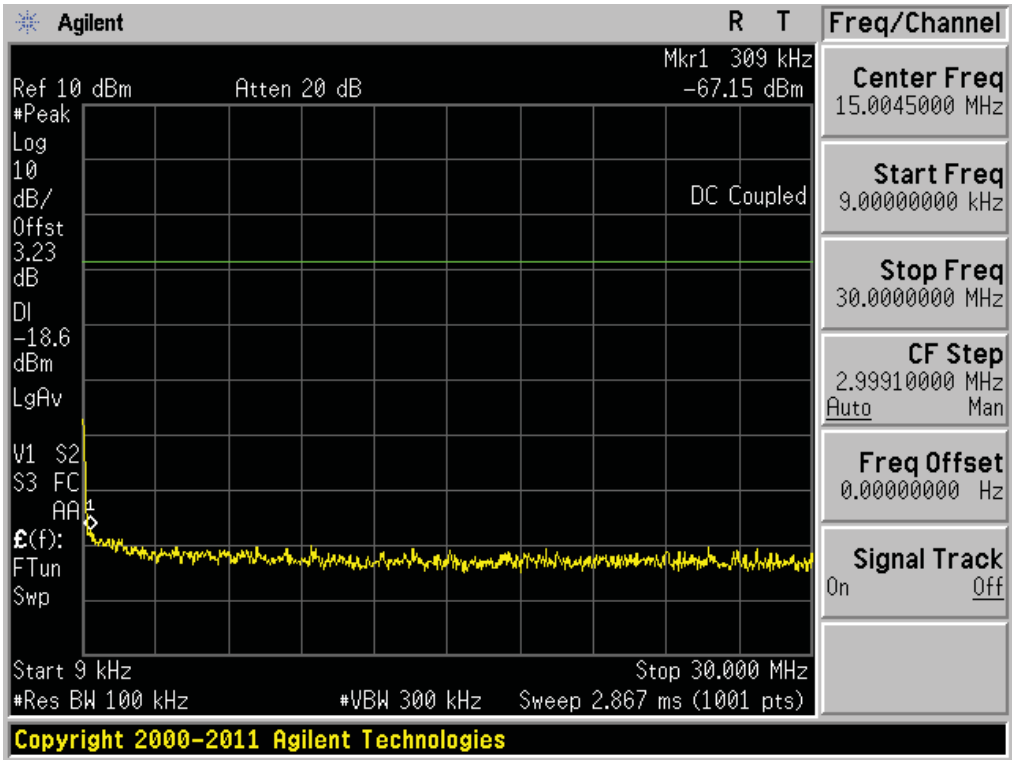
Test Mode: Chain 0 & 802.11a & 24Mbps & 5825MHz

Reference

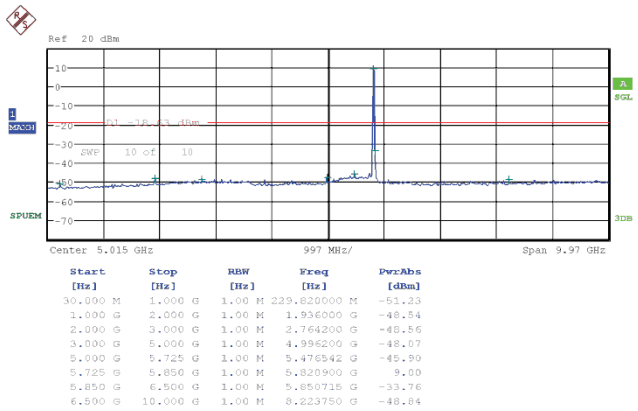


Low Band-edge

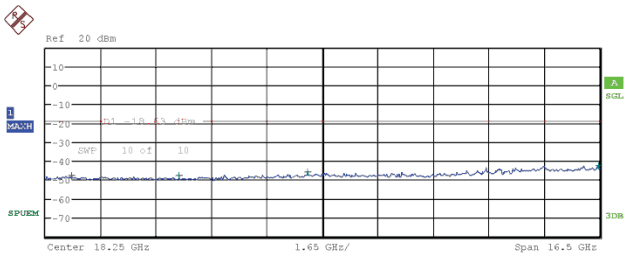
Conducted Spurious Emissions



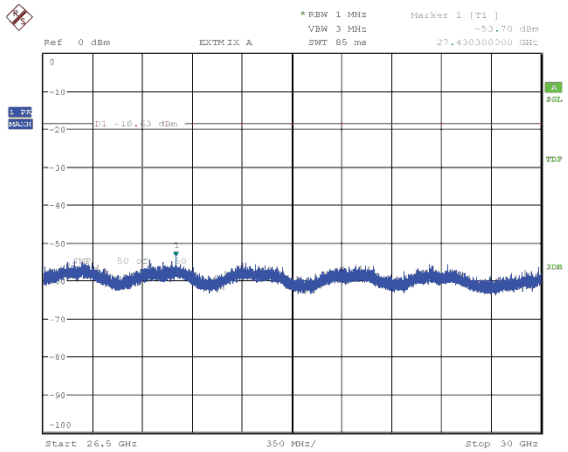
Conducted Spurious Emissions

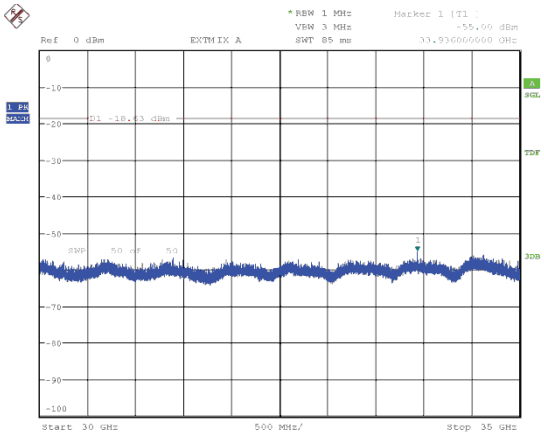


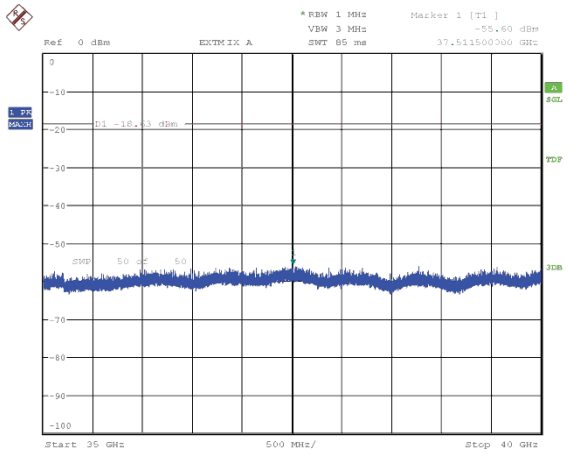
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	229.820000 M	-51.23
1.000 G	2.000 G	1.00 M	1.936000 G	-48.54
2.000 G	3.000 G	1.00 M	2.764200 G	-48.56
3.000 G	5.000 G	1.00 M	4.996200 G	-48.07
5.000 G	5.725 G	1.00 M	5.476542 G	-45.90
5.725 G	5.850 G	1.00 M	5.820900 G	9.00
5.850 G	6.500 G	1.00 M	5.850715 G	-33.76
6.500 G	10.000 G	1.00 M	8.223750 G	-48.84



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.777900 G	-47.90
12.000 G	15.000 G	1.00 M	13.976550 G	-47.97
15.000 G	20.000 G	1.00 M	17.812250 G	-46.16
20.000 G	26.500 G	1.00 M	26.467175 G	-42.61

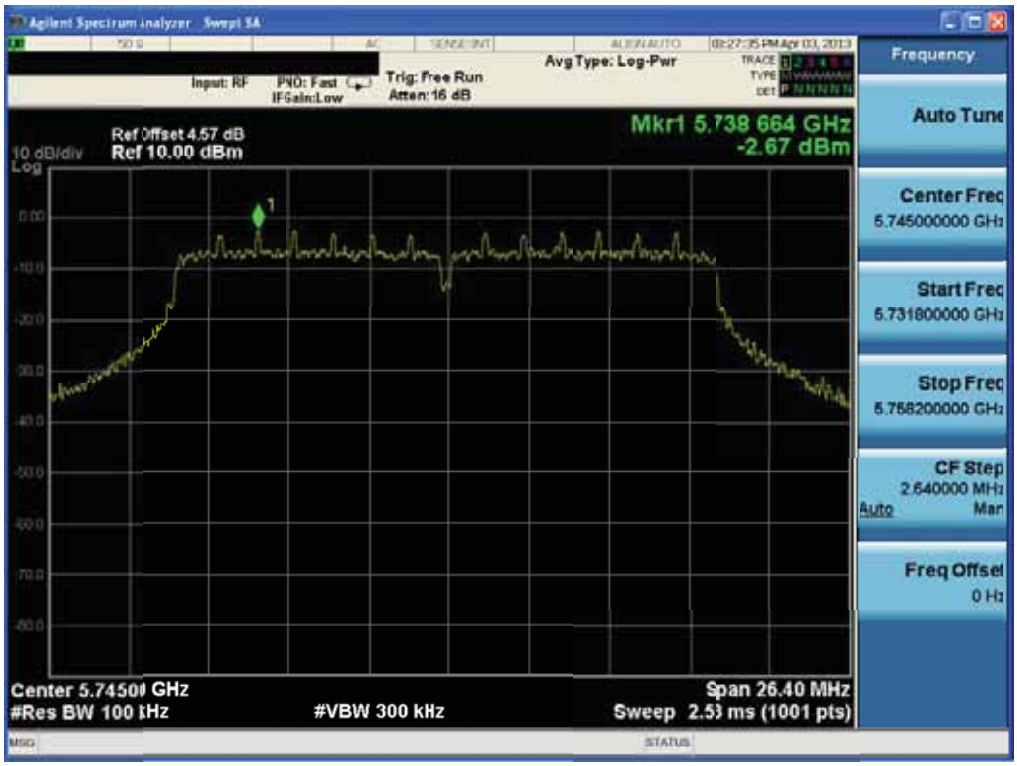




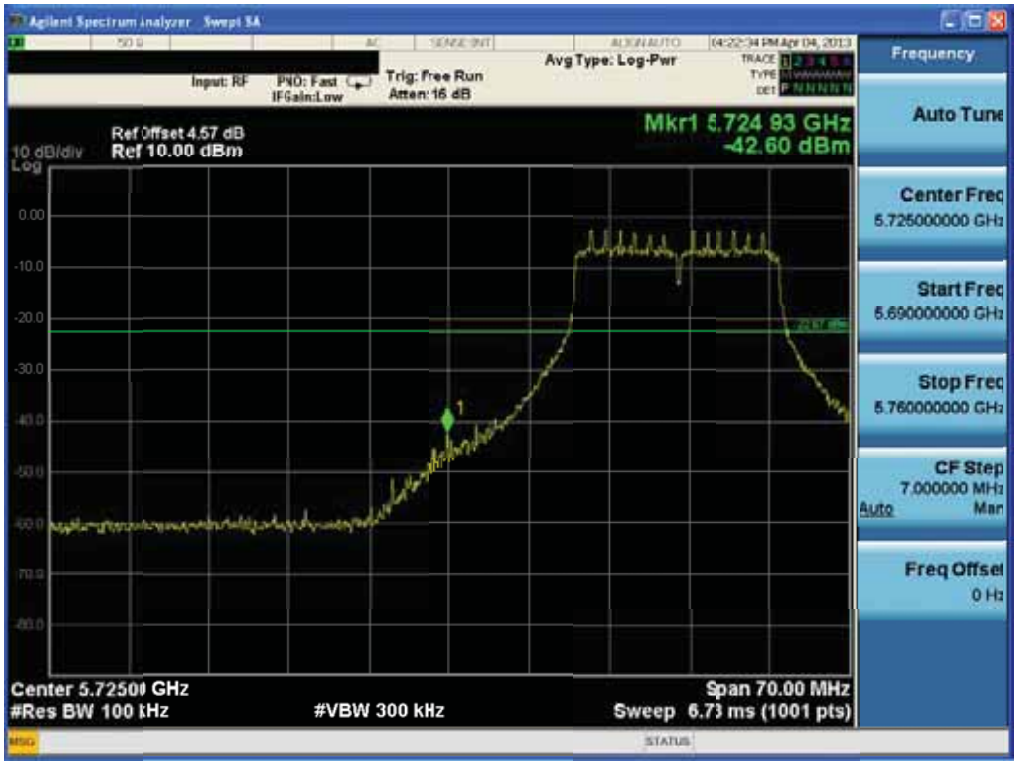


Test Mode: Chain 0 & 802.11n HT20 & MCS 8 & 5745MHz

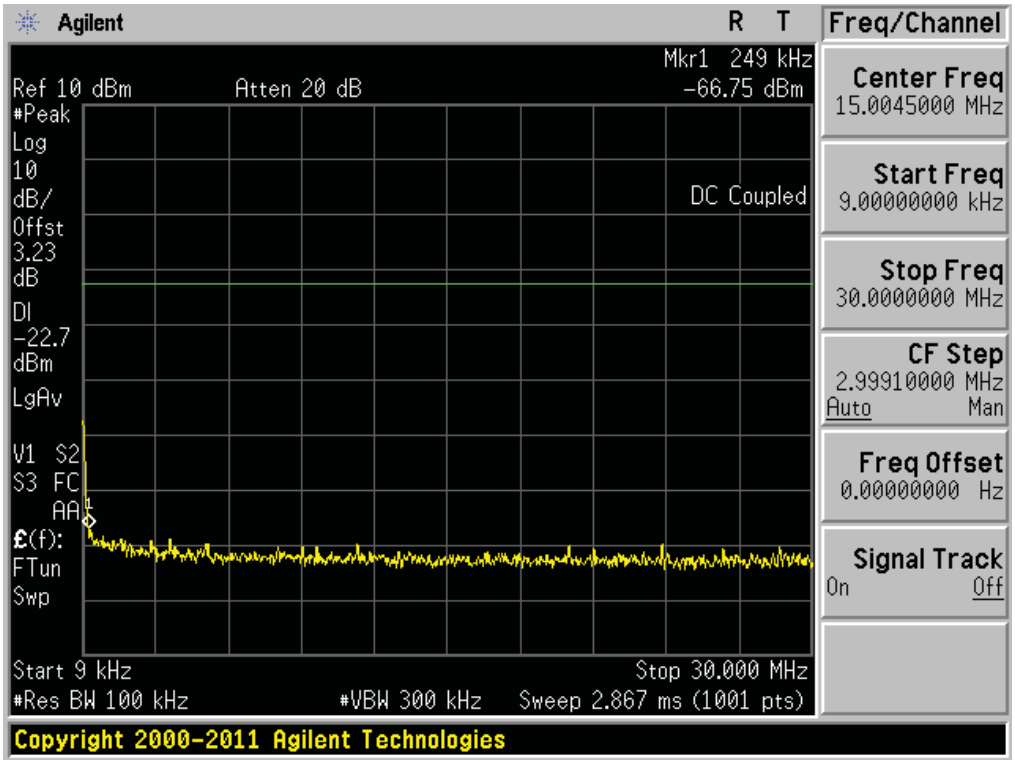
Reference



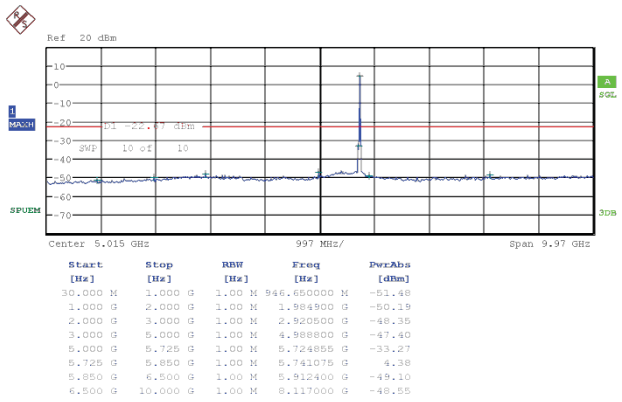
Low Band-edge



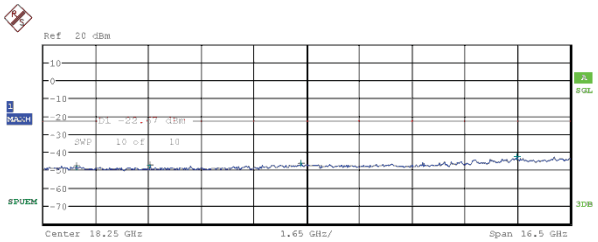
Conducted Spurious Emissions



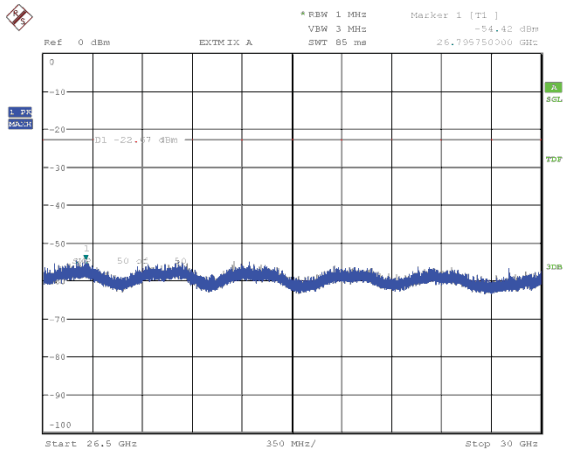
Conducted Spurious Emissions

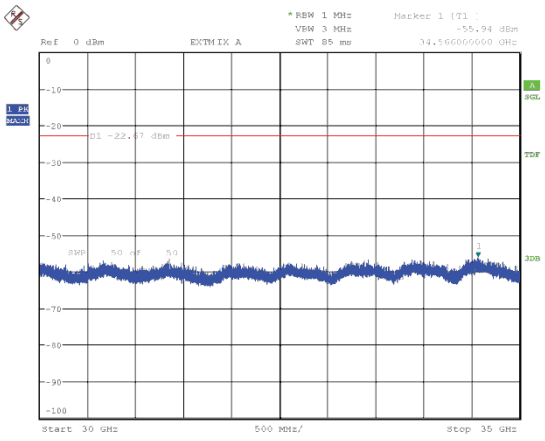


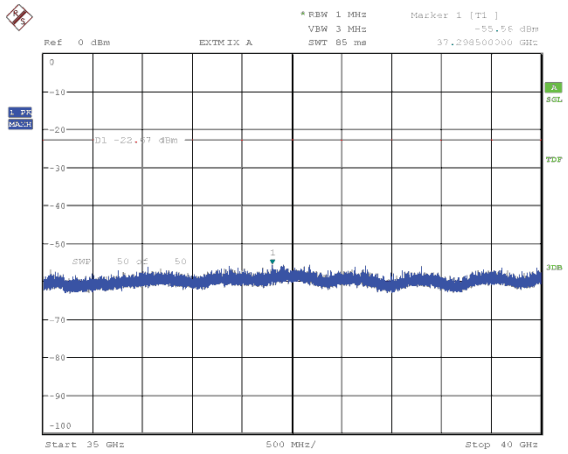
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	946.650000 M	-51.48
1.000 G	2.000 G	1.00 M	1.984900 G	-50.19
2.000 G	3.000 G	1.00 M	2.920500 G	-48.35
3.000 G	5.000 G	1.00 M	4.988800 G	-47.40
5.000 G	5.725 G	1.00 M	5.724855 G	-33.27
5.725 G	5.850 G	1.00 M	5.741075 G	4.38
5.850 G	6.500 G	1.00 M	5.912400 G	-49.10
6.500 G	10.000 G	1.00 M	8.117000 G	-48.55



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.031100 G	-47.85
12.000 G	15.000 G	1.00 M	13.326000 G	-47.57
15.000 G	20.000 G	1.00 M	18.073250 G	-46.42
20.000 G	26.500 G	1.00 M	24.828525 G	-42.73

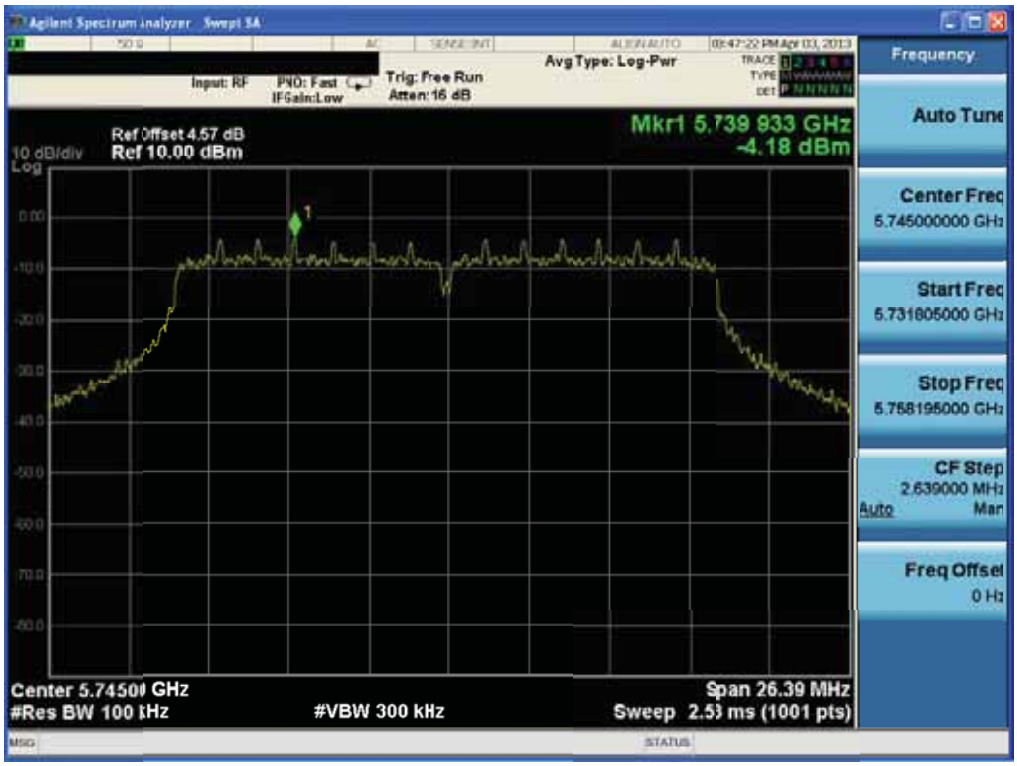




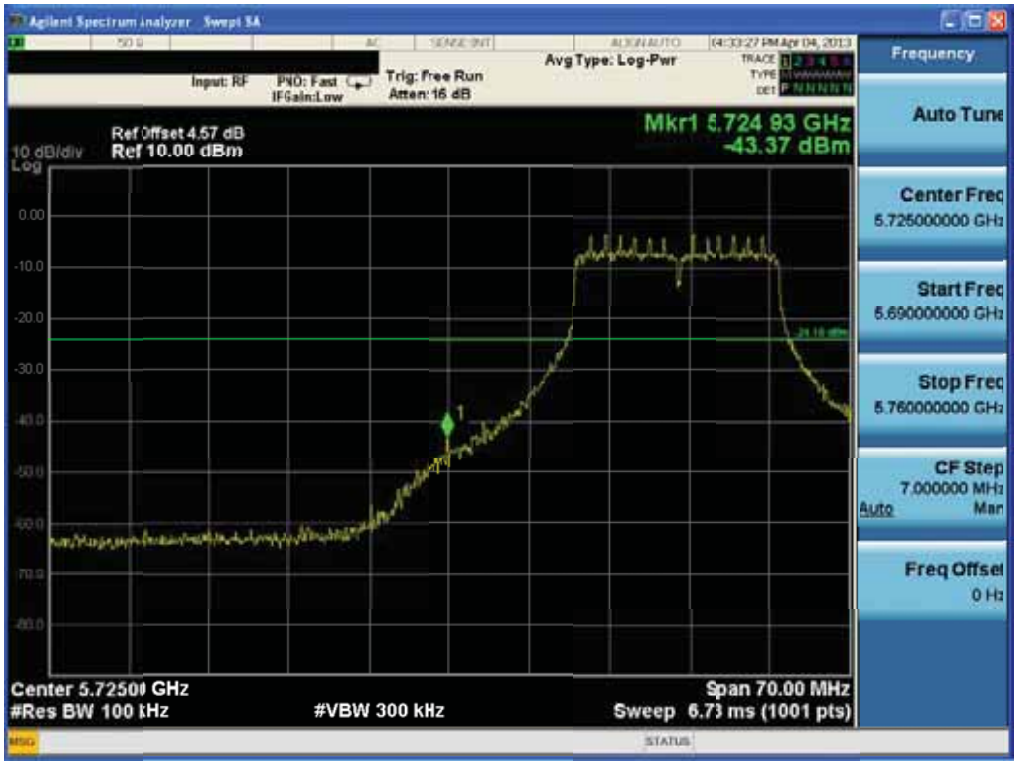


Test Mode: Chain 1 & 802.11n HT20 & MCS 8 & 5745MHz

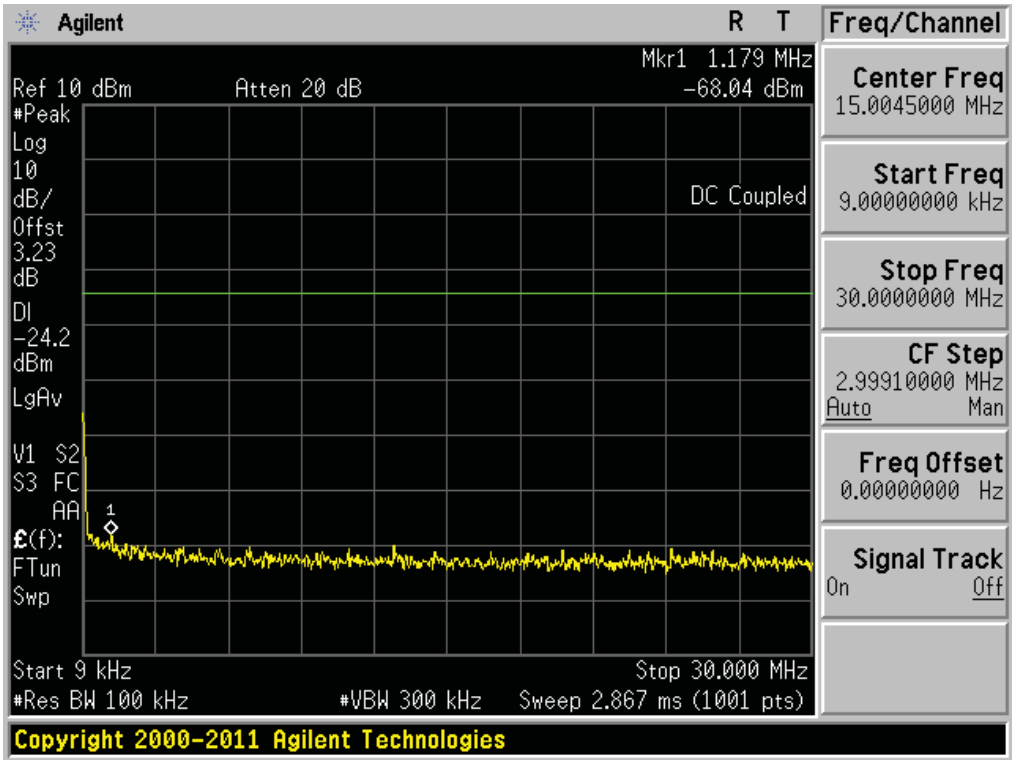
Reference



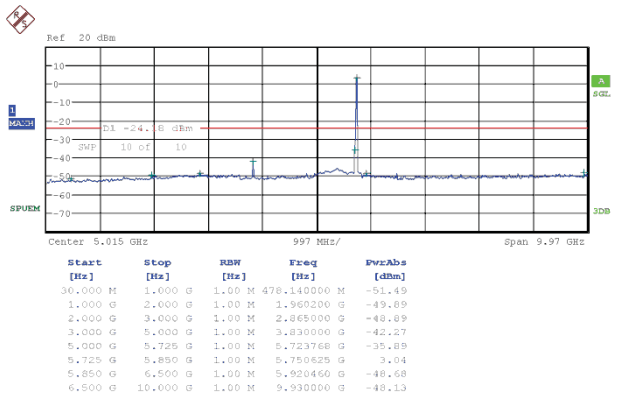
Low Band-edge



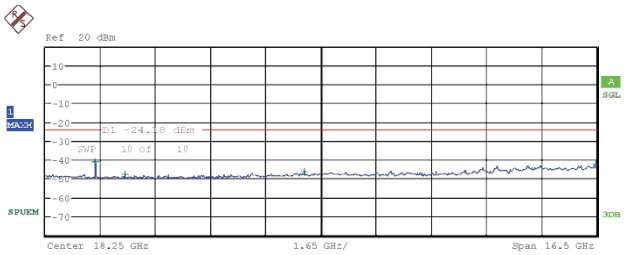
Conducted Spurious Emissions



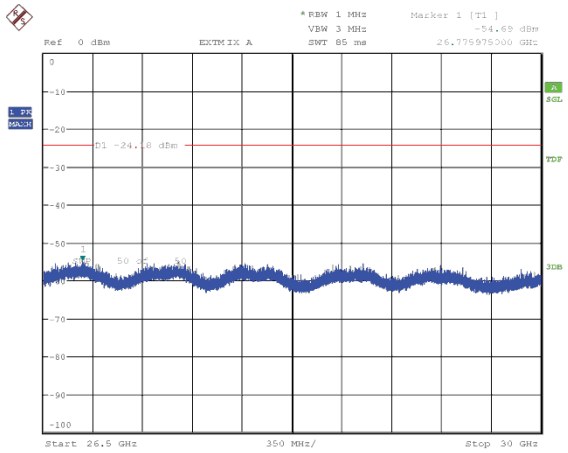
Conducted Spurious Emissions

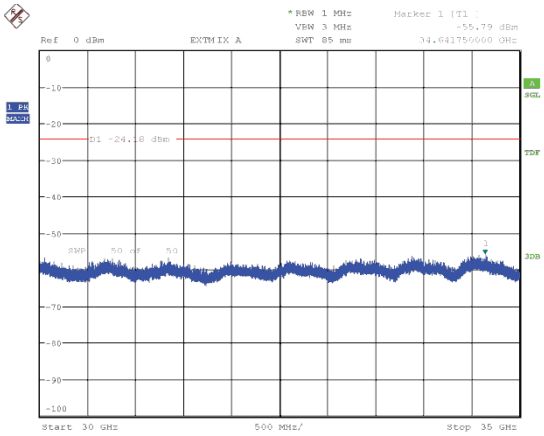


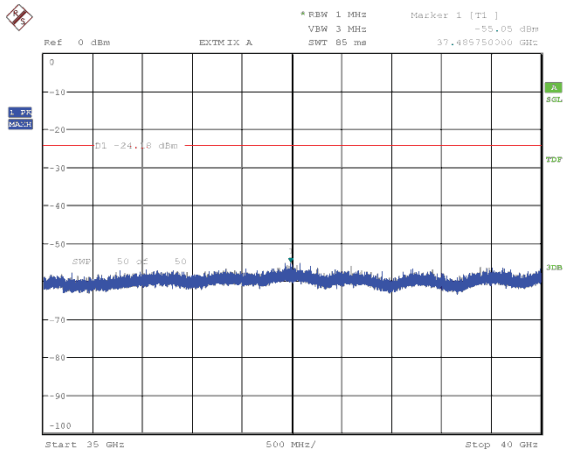
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	478.140000 M	-51.49
1.000 G	2.000 G	1.00 M	1.960200 G	-49.89
2.000 G	3.000 G	1.00 M	2.865000 G	-48.89
3.000 G	5.000 G	1.00 M	3.830000 G	-42.27
5.000 G	5.725 G	1.00 M	5.723768 G	-35.89
5.725 G	5.850 G	1.00 M	5.750825 G	3.04
5.850 G	6.500 G	1.00 M	5.920460 G	-48.68
6.500 G	10.000 G	1.00 M	9.930000 G	-48.13



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.491100 G	-41.17
12.000 G	15.000 G	1.00 M	12.382950 G	-48.03
15.000 G	20.000 G	1.00 M	17.750000 G	-46.21
20.000 G	26.500 G	1.00 M	26.466850 G	-42.82

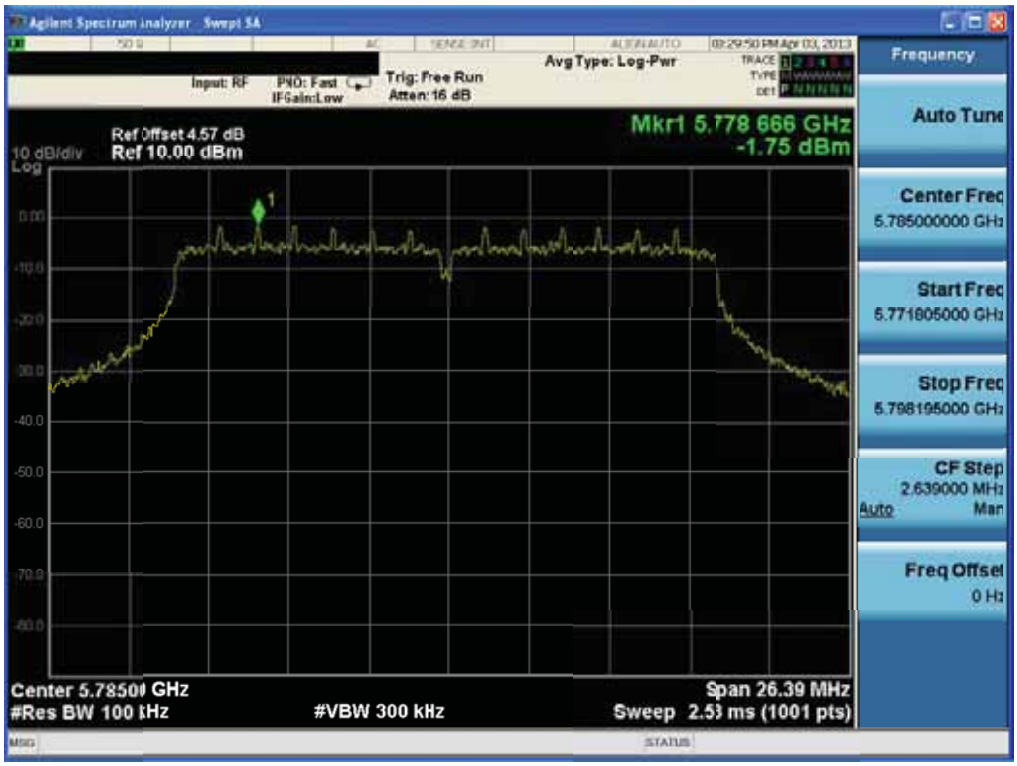




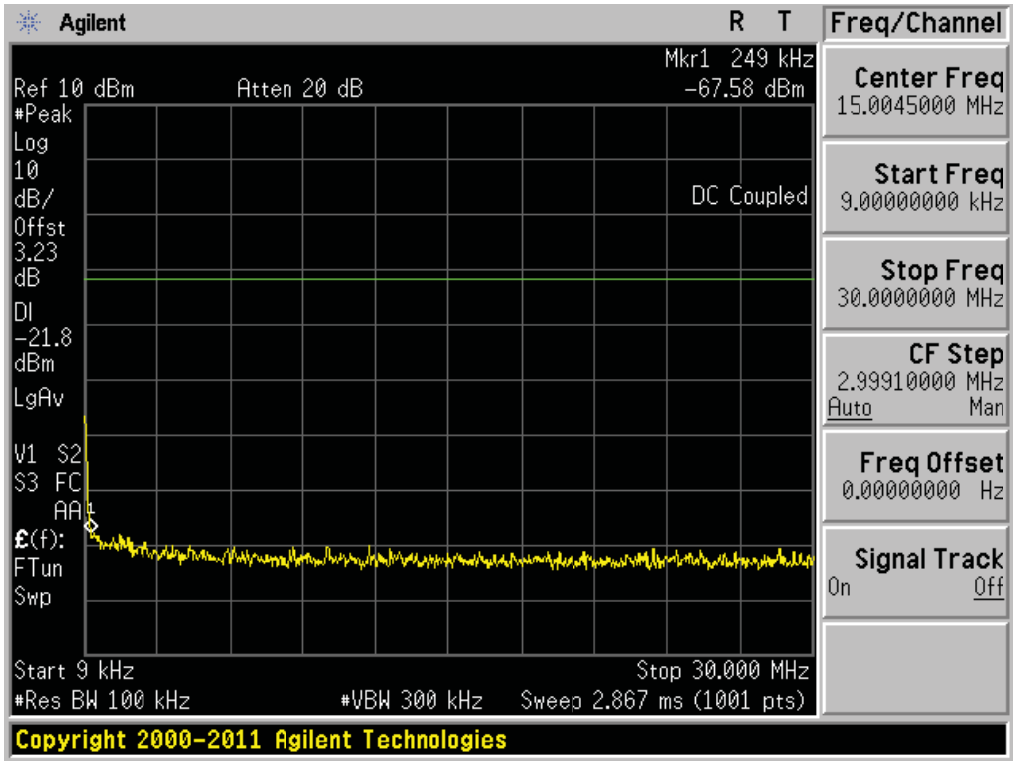


Test Mode: Chain 0 & 802.11n HT20 & MCS 8 & 5785MHz

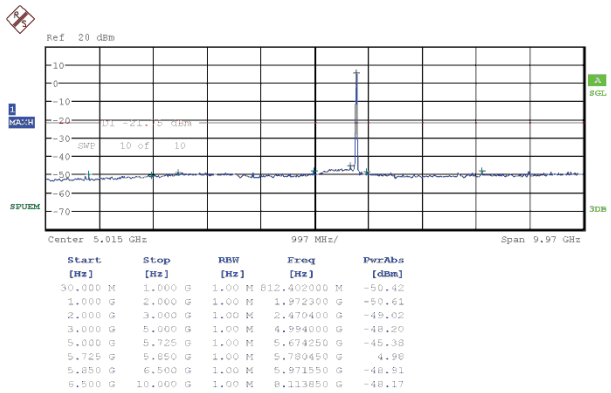
Reference



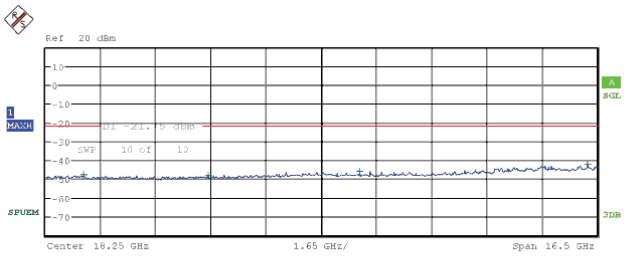
Conducted Spurious Emissions



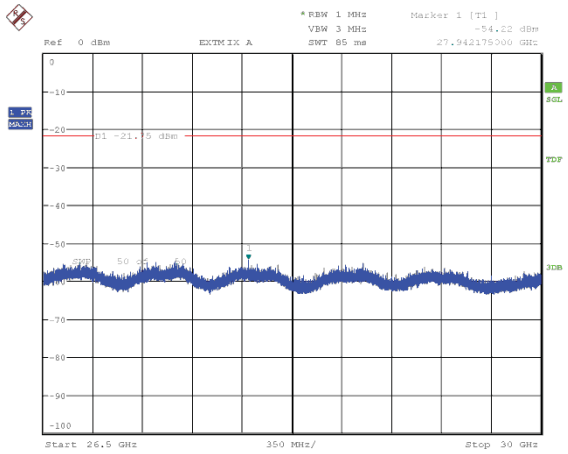
Conducted Spurious Emissions

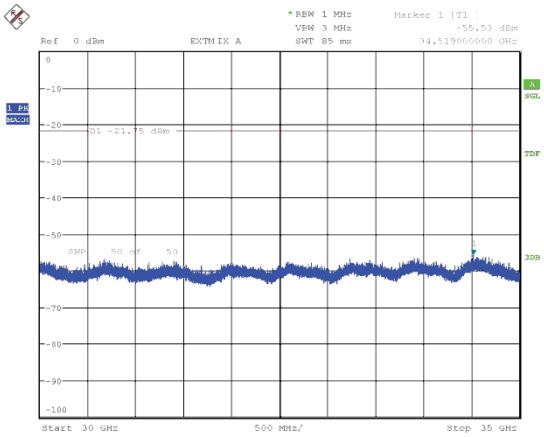


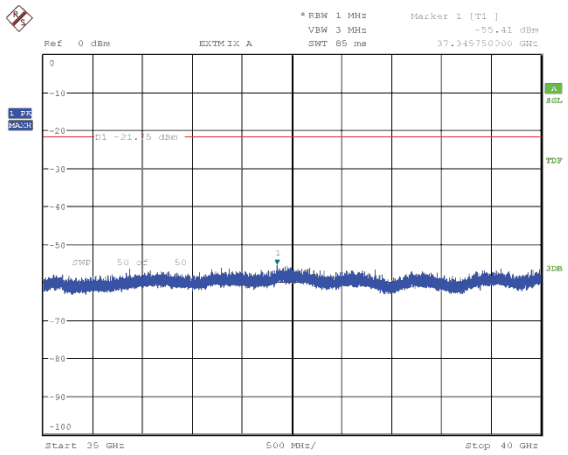
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	812.402000 M	-50.42
1.000 G	2.000 G	1.00 M	1.972300 G	-50.61
2.000 G	3.000 G	1.00 M	2.470400 G	-49.02
3.000 G	5.000 G	1.00 M	4.994000 G	-48.20
5.000 G	5.725 G	1.00 M	5.674250 G	-45.38
5.725 G	5.850 G	1.00 M	5.780450 G	4.98
5.850 G	6.500 G	1.00 M	5.971550 G	-48.91
6.500 G	10.000 G	1.00 M	8.113850 G	-48.17



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.132900 G	-47.70
12.000 G	15.000 G	1.00 M	14.870250 G	-48.28
15.000 G	20.000 G	1.00 M	19.381000 G	-45.77
20.000 G	26.500 G	1.00 M	26.218875 G	-42.24

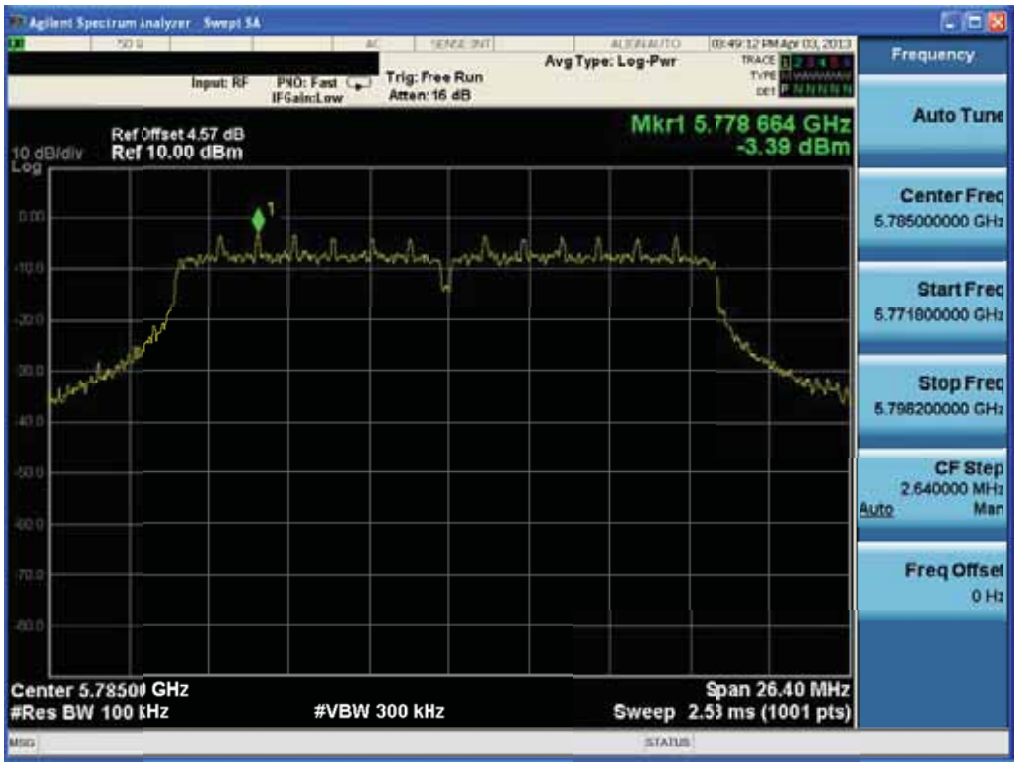




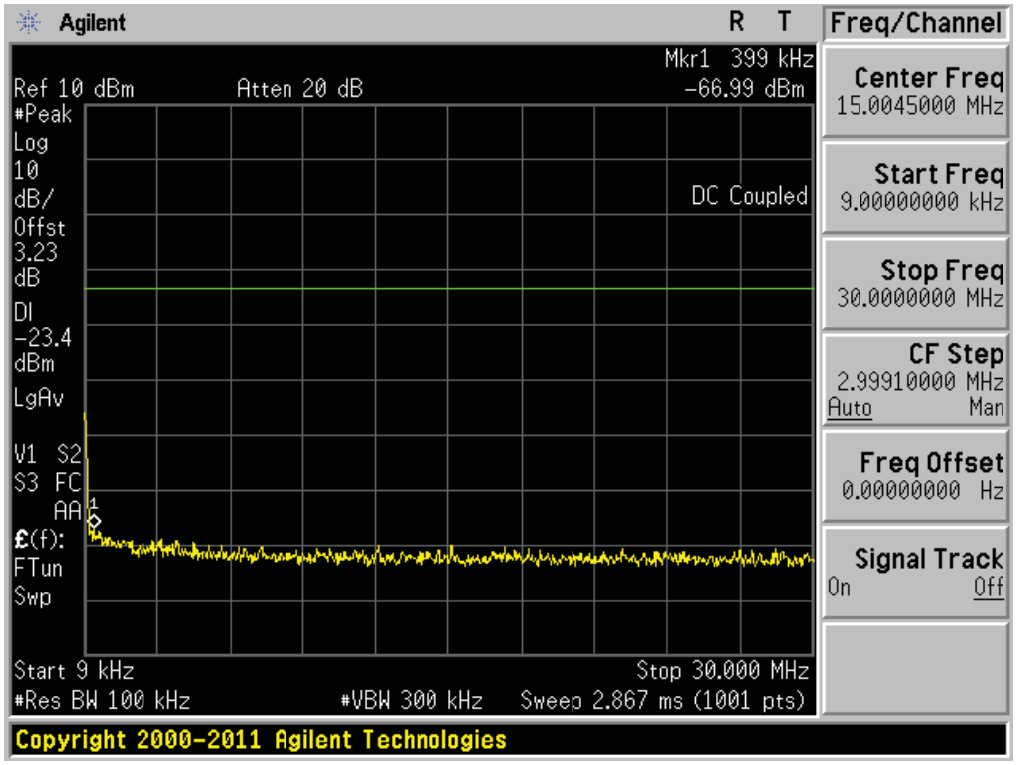


Test Mode: Chain 1 & 802.11n HT20 & MCS 8 & 5785MHz

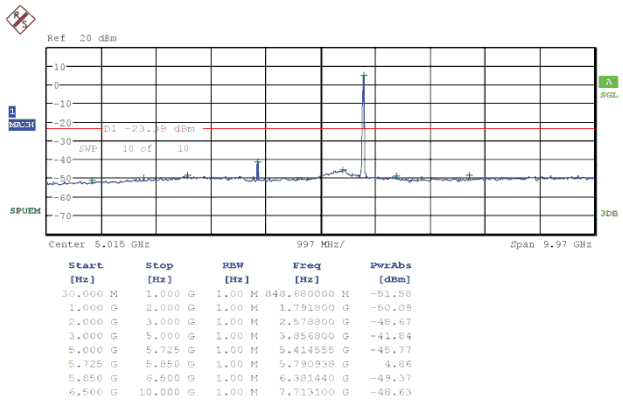
Reference



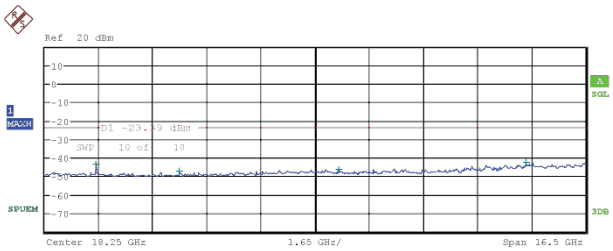
Conducted Spurious Emissions



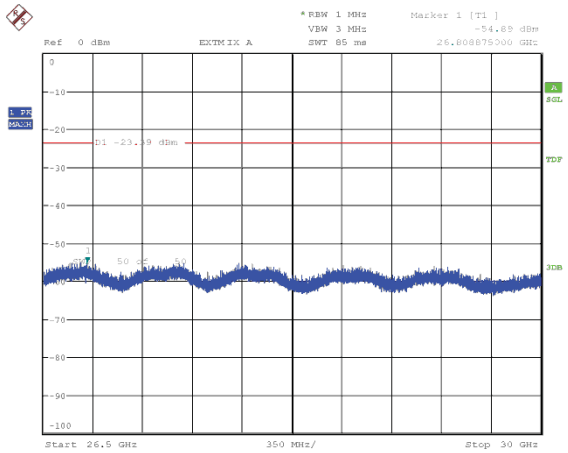
Conducted Spurious Emissions

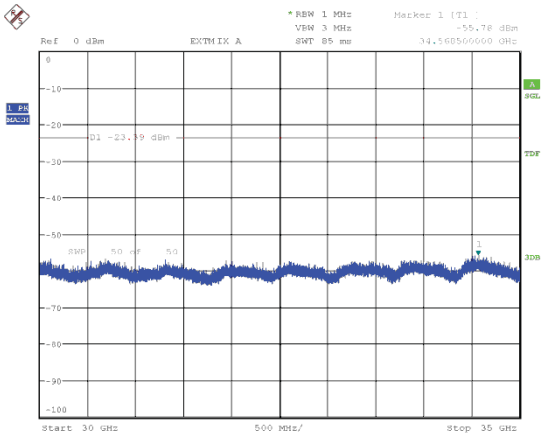


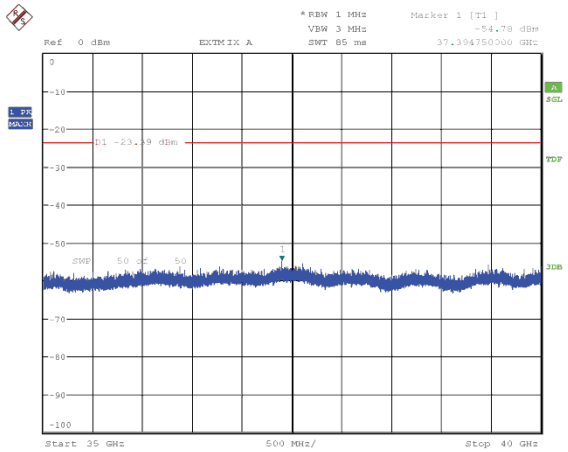
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	848.680000 M	-51.58
1.000 G	2.000 G	1.00 M	1.791800 G	-50.09
2.000 G	3.000 G	1.00 M	2.578800 G	-48.67
3.000 G	5.000 G	1.00 M	3.856800 G	-41.84
5.000 G	5.725 G	1.00 M	5.414555 G	-45.77
5.725 G	5.850 G	1.00 M	5.790938 G	4.86
5.850 G	6.500 G	1.00 M	6.381440 G	-49.37
6.500 G	10.000 G	1.00 M	7.713100 G	-48.63



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.567800 G	-43.61
12.000 G	15.000 G	1.00 M	14.094900 G	-47.55
15.000 G	20.000 G	1.00 M	18.561000 G	-46.40
20.000 G	26.500 G	1.00 M	24.677075 G	-42.44

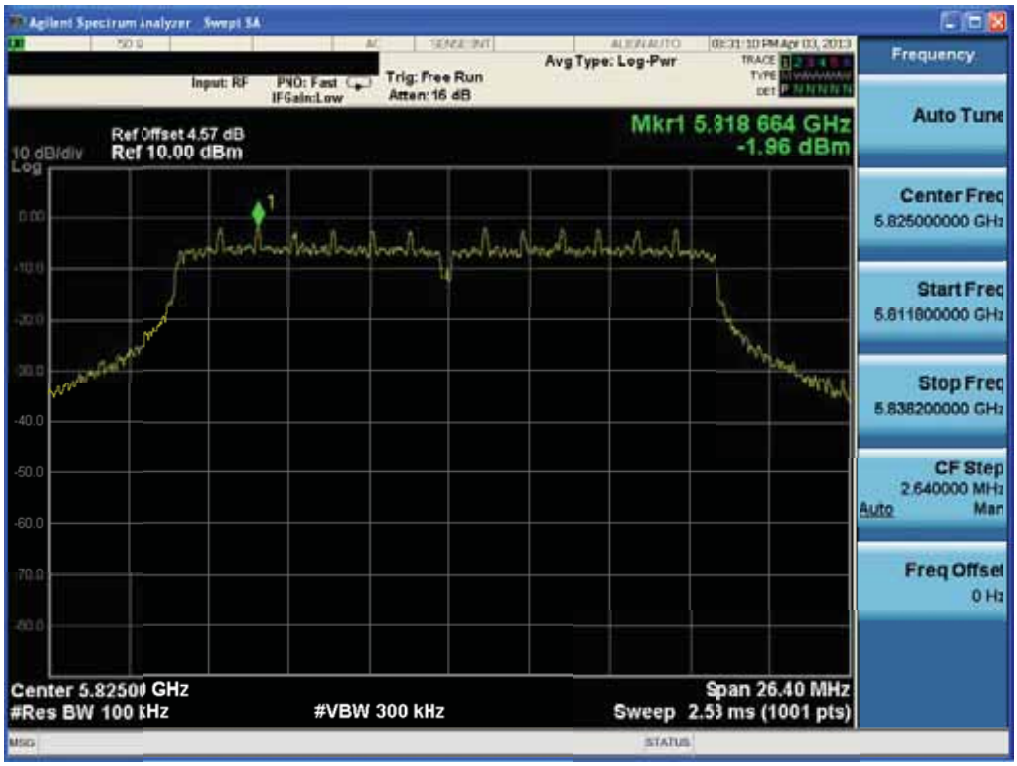




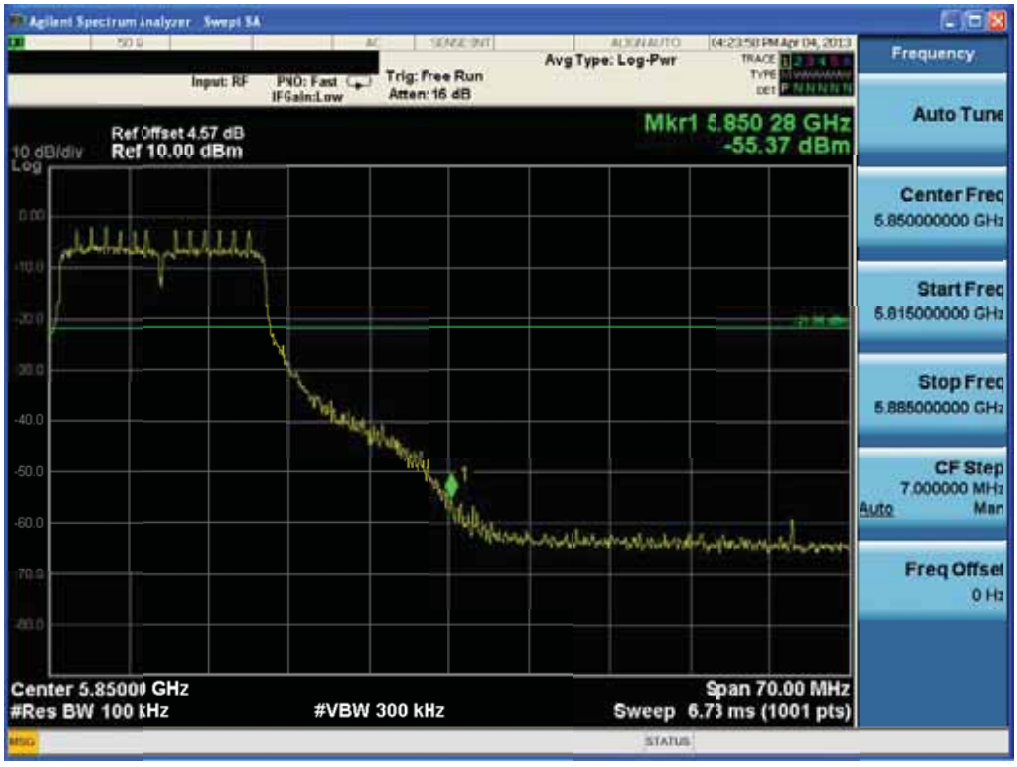


Test Mode: Chain 0 & 802.11n HT20 & MCS 8 & 5825MHz

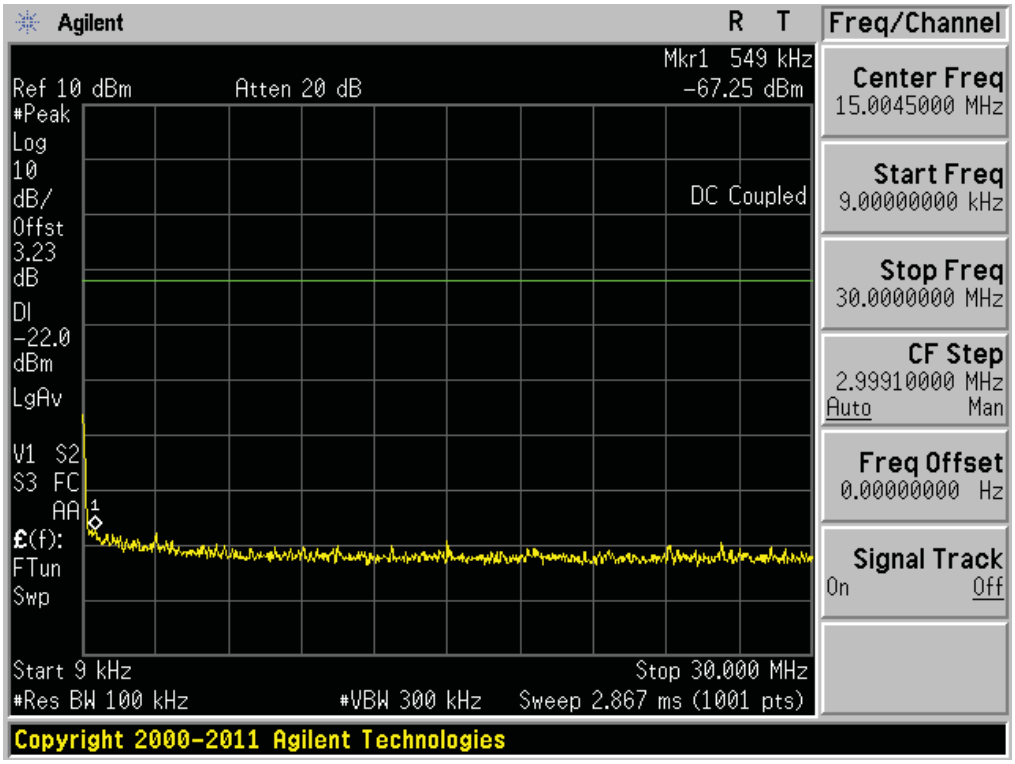
Reference



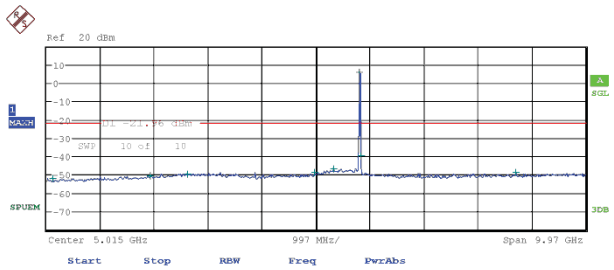
Low Band-edge



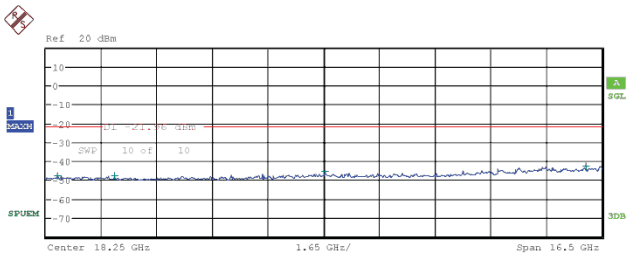
Conducted Spurious Emissions



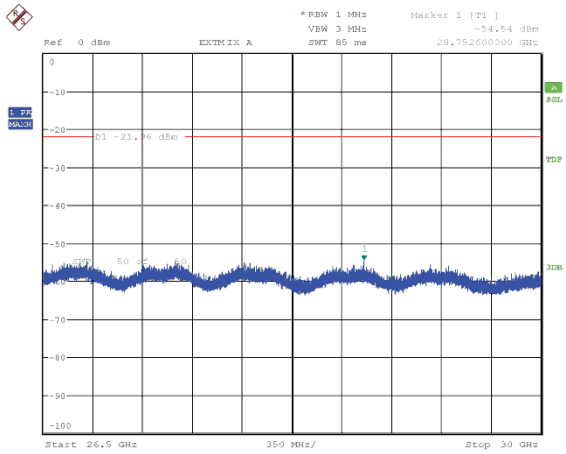
Conducted Spurious Emissions

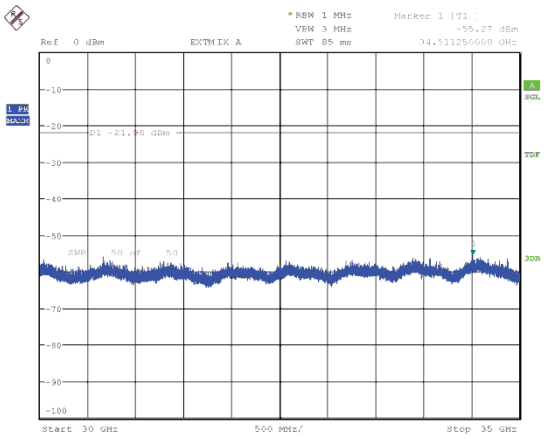


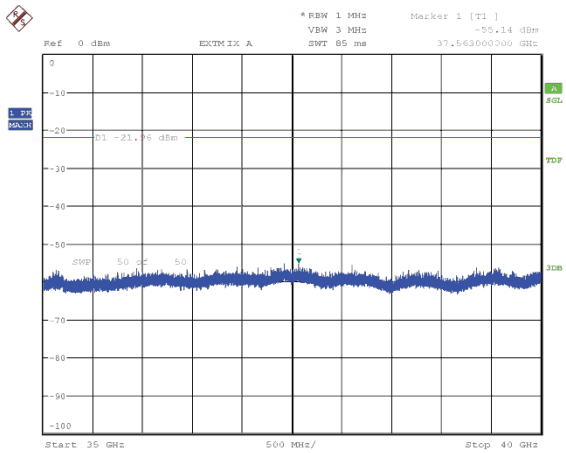
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	135.439000 M	-51.96
1.000 G	2.000 G	1.00 M	1.945800 G	-50.45
2.000 G	3.000 G	1.00 M	2.632400 G	-49.51
3.000 G	5.000 G	1.00 M	4.986400 G	-48.59
5.000 G	5.725 G	1.00 M	5.336110 G	-46.68
5.725 G	5.850 G	1.00 M	5.819888 G	5.50
5.850 G	6.500 G	1.00 M	5.850130 G	-40.04
6.500 G	10.000 G	1.00 M	8.702550 G	-48.77



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.339700 G	-47.77
12.000 G	15.000 G	1.00 M	12.038550 G	-47.87
15.000 G	20.000 G	1.00 M	18.266250 G	-45.71
20.000 G	26.500 G	1.00 M	26.027450 G	-42.67

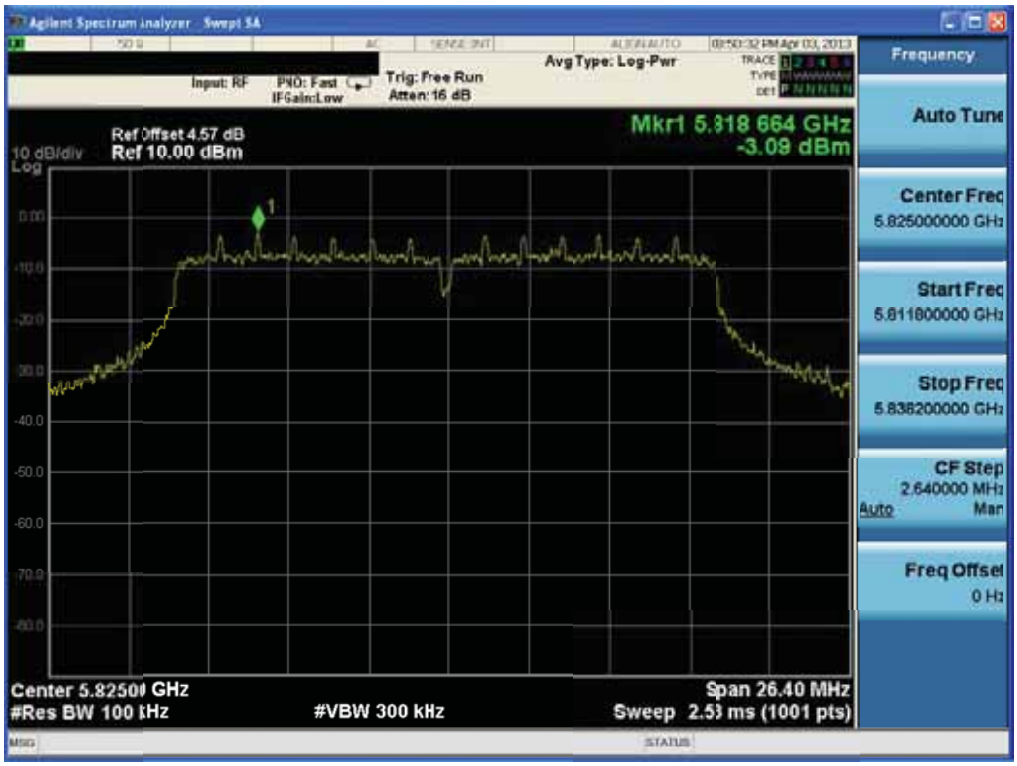




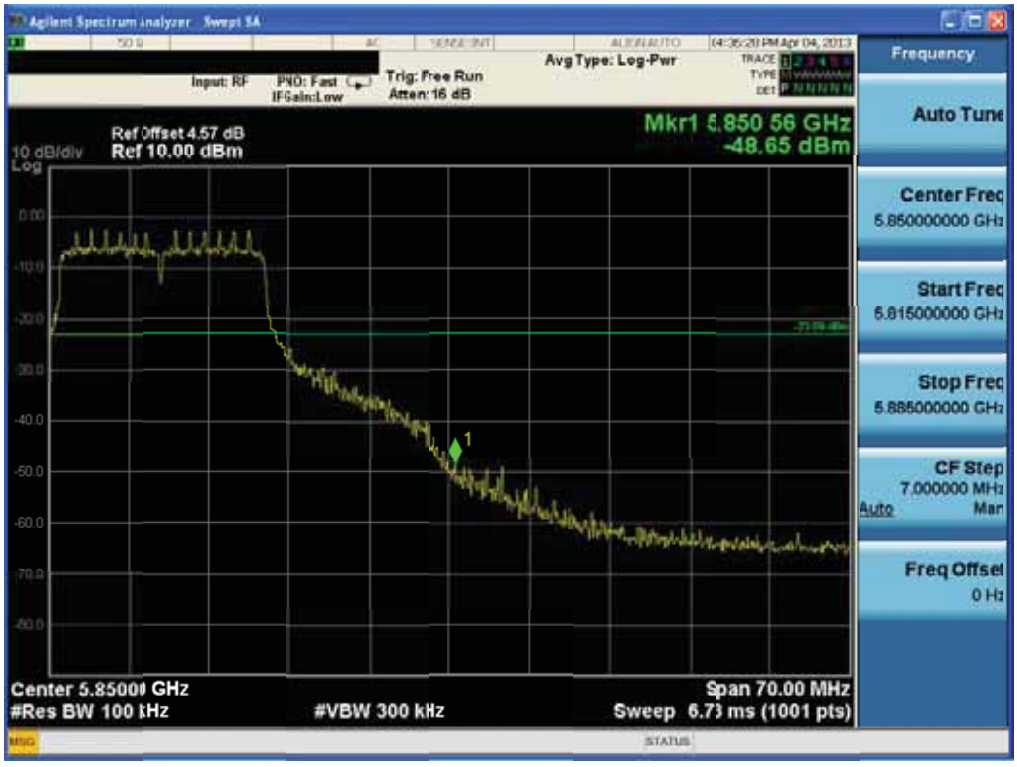


Test Mode: Chain 1 & 802.11n HT20 & MCS 8 & 5825MHz

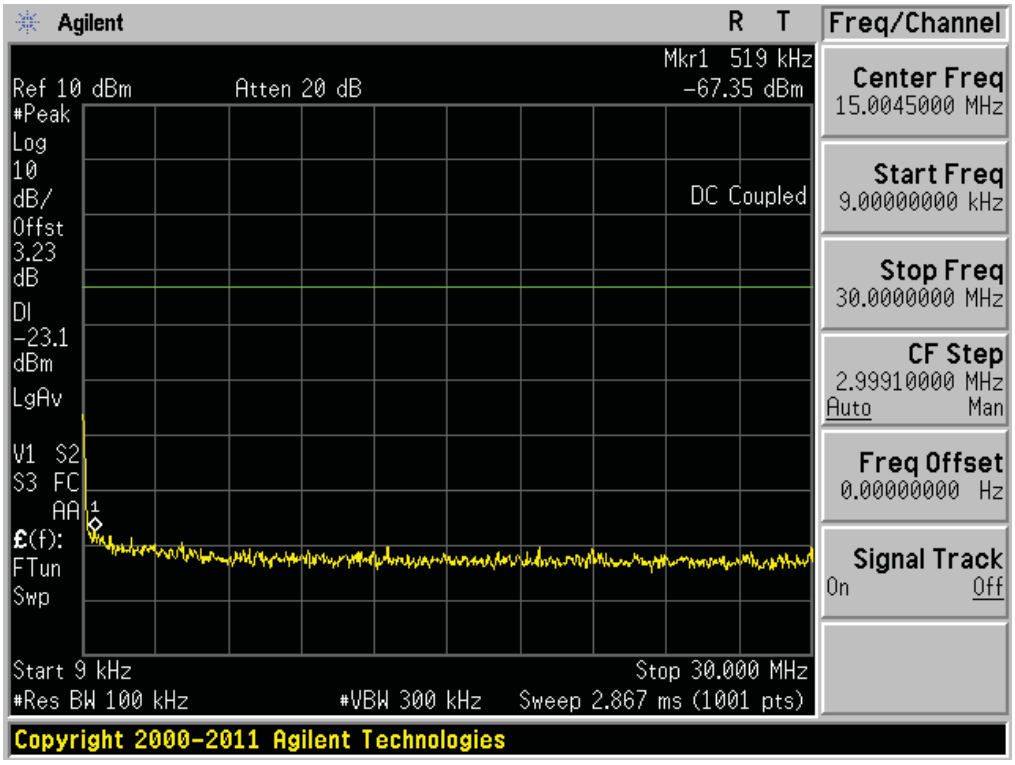
Reference



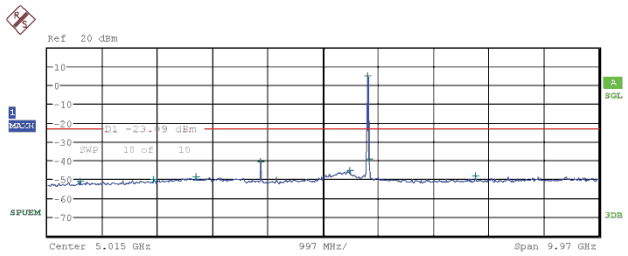
Low Band-edge



Conducted Spurious Emissions

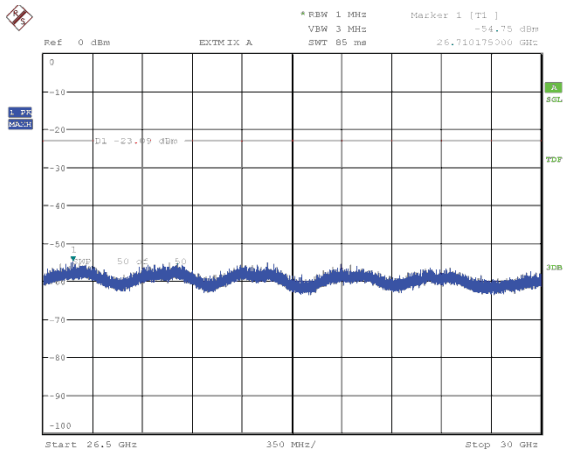


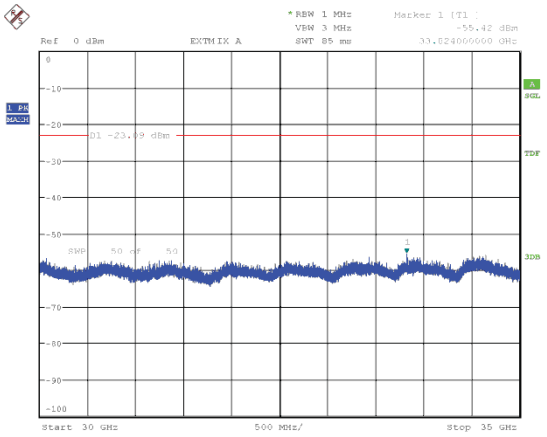
Conducted Spurious Emissions

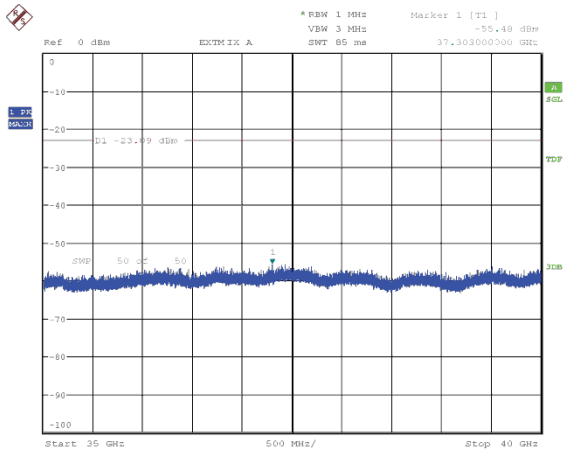


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	626.550000 M	-51.35
1.000 G	2.000 G	1.00 M	1.948200 G	-50.08
2.000 G	3.000 G	1.00 M	2.708500 G	-48.60
3.000 G	5.000 G	1.00 M	3.883400 G	-40.57
5.000 G	5.725 G	1.00 M	5.490898 G	-45.50
5.725 G	5.850 G	1.00 M	5.819563 G	4.65
5.850 G	6.500 G	1.00 M	5.851170 G	-39.39
6.500 G	10.000 G	1.00 M	7.767000 G	-48.49

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.321300 G	-47.40
12.000 G	15.000 G	1.00 M	14.349900 G	-47.77
15.000 G	20.000 G	1.00 M	17.489250 G	-46.06
20.000 G	26.500 G	1.00 M	26.498700 G	-43.00

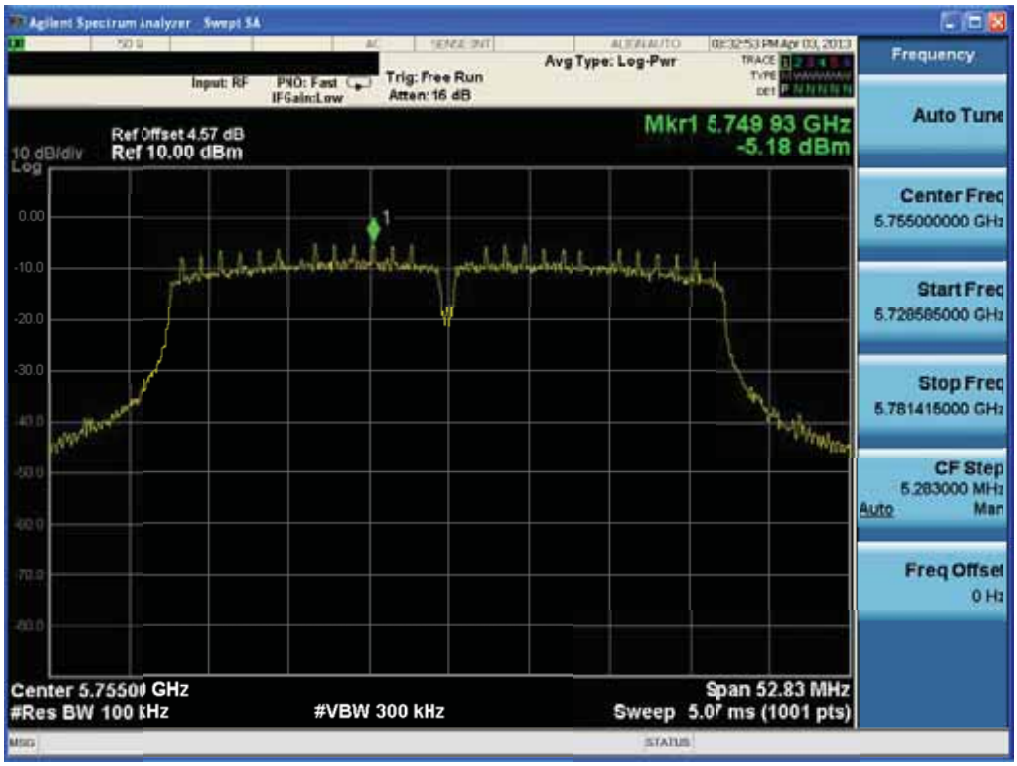




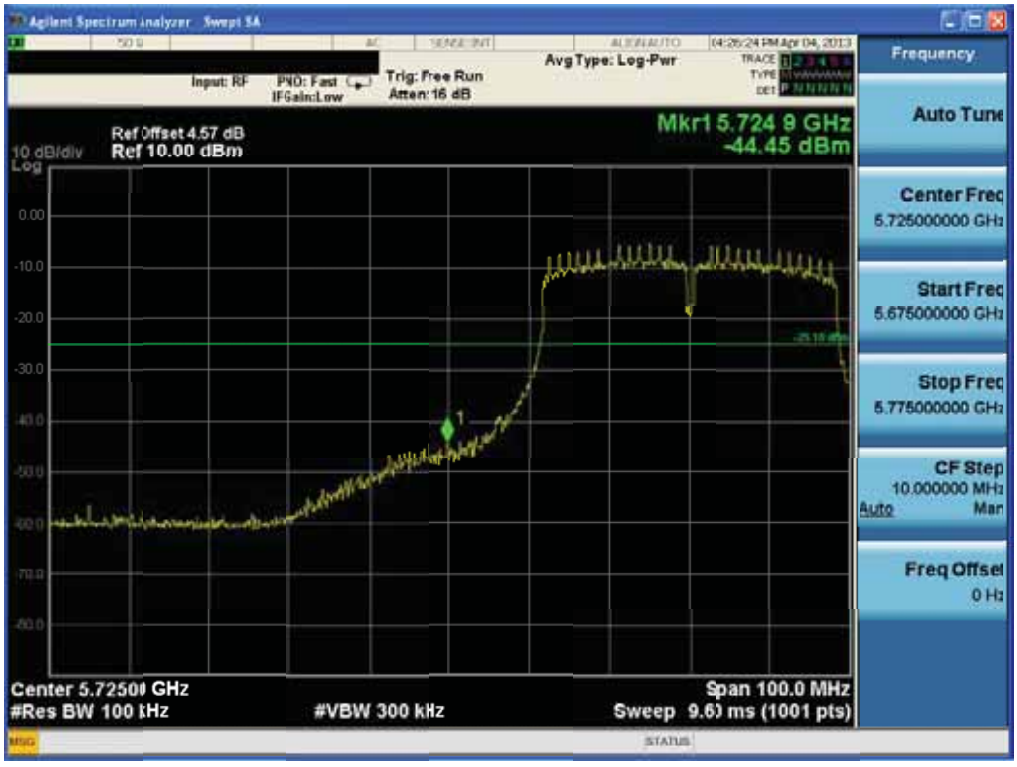


Test Mode: Chain 0 & 802.11n HT40 & MCS 11 & 5755MHz

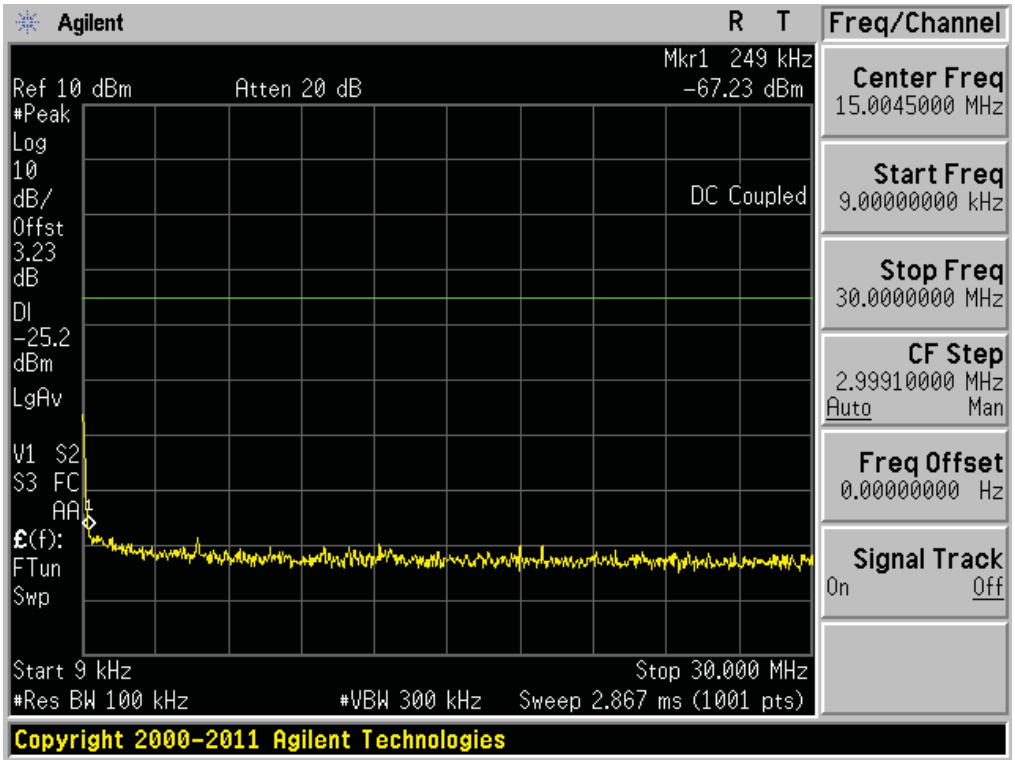
Reference



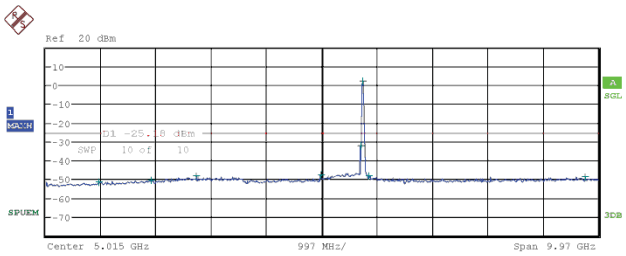
Low Band-edge



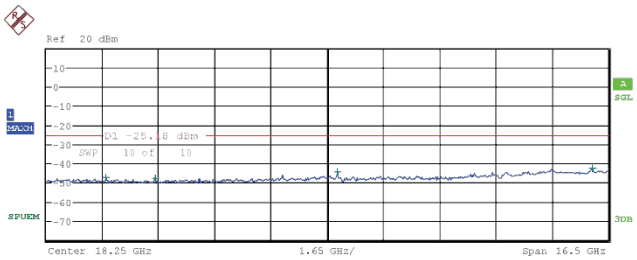
Conducted Spurious Emissions



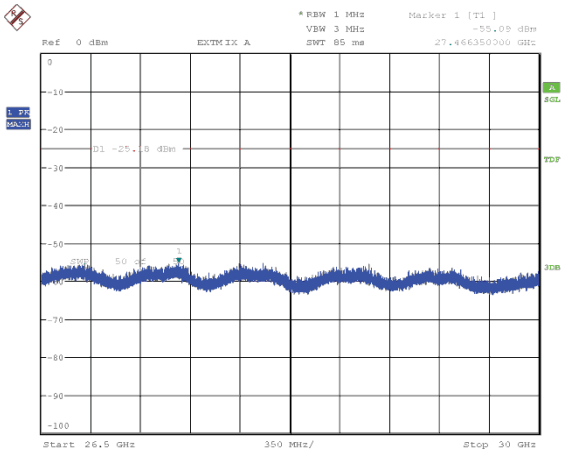
Conducted Spurious Emissions

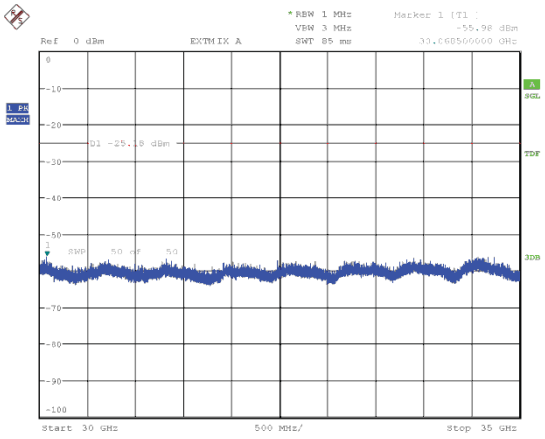


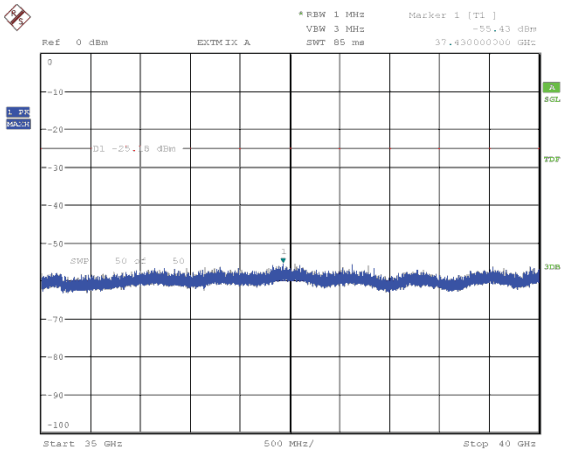
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	986.614000 M	-51.56
1.000 G	2.000 G	1.00 M	1.931600 G	-50.63
2.000 G	3.000 G	1.00 M	2.753700 G	-48.25
3.000 G	5.000 G	1.00 M	4.992200 G	-47.69
5.000 G	5.725 G	1.00 M	5.719997 G	-32.43
5.725 G	5.850 G	1.00 M	5.749862 G	2.14
5.850 G	6.500 G	1.00 M	5.859555 G	-48.12
6.500 G	10.000 G	1.00 M	9.757450 G	-48.76



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.738900 G	-47.26
12.000 G	15.000 G	1.00 M	13.202250 G	-47.92
15.000 G	20.000 G	1.00 M	18.535750 G	-44.76
20.000 G	26.500 G	1.00 M	26.016400 G	-42.67

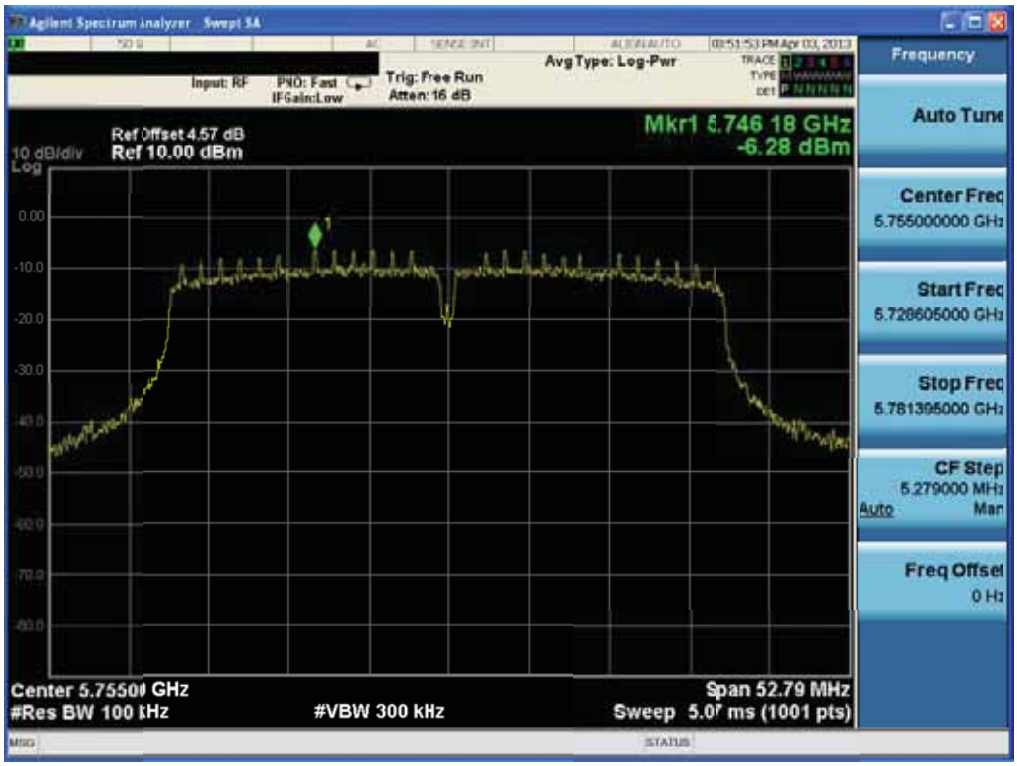




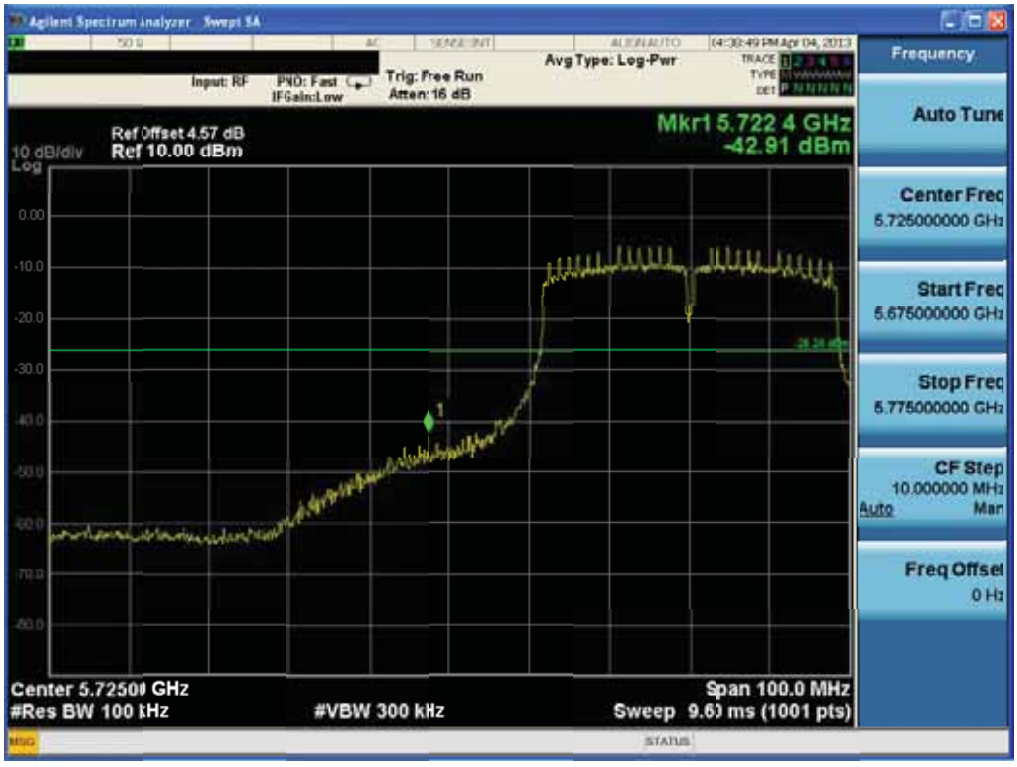


Test Mode: Chain 1 & 802.11n HT40 & MCS 11 & 5755MHz

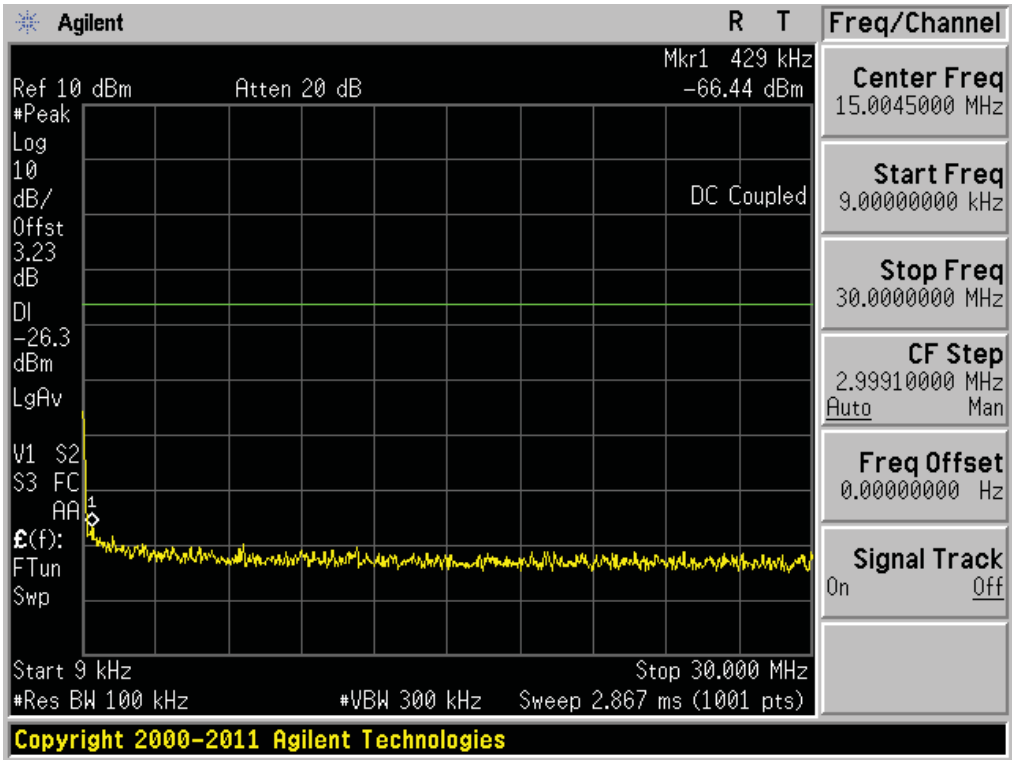
Reference



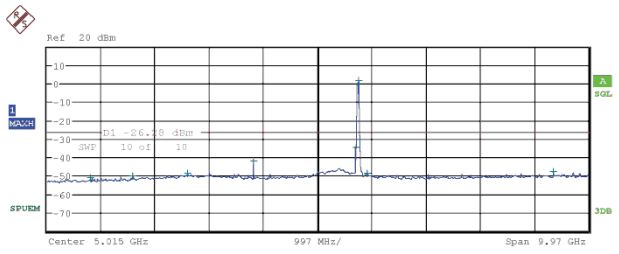
Low Band-edge



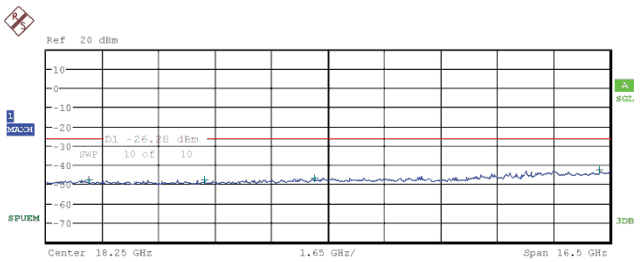
Conducted Spurious Emissions



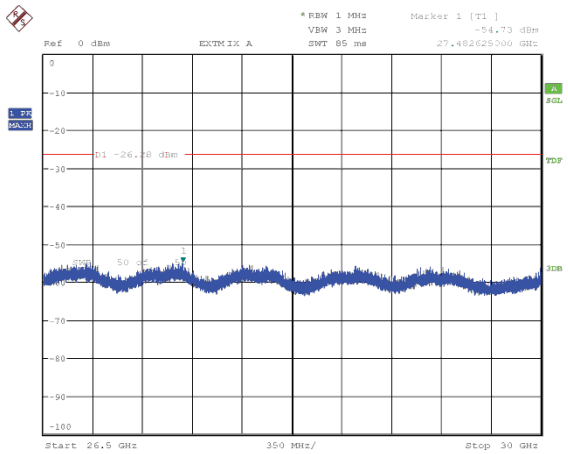
Conducted Spurious Emissions

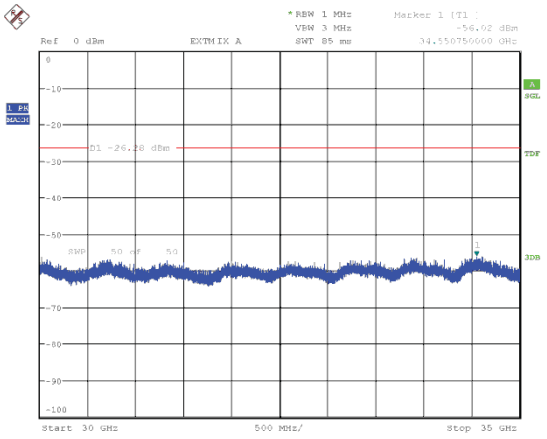


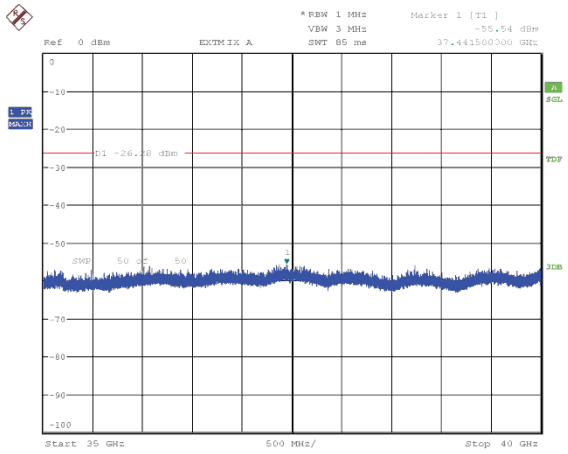
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	831.802000 M	-51.14
1.000 G	2.000 G	1.00 M	1.613000 G	-50.12
2.000 G	3.000 G	1.00 M	2.619800 G	-49.01
3.000 G	5.000 G	1.00 M	3.836600 G	-42.15
5.000 G	5.725 G	1.00 M	5.722317 G	-34.61
5.725 G	5.850 G	1.00 M	5.760187 G	1.26
5.850 G	6.500 G	1.00 M	5.918445 G	-48.96
6.500 G	10.000 G	1.00 M	9.345500 G	-47.86



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	11.238500 G	-47.83
12.000 G	15.000 G	1.00 M	14.622150 G	-47.69
15.000 G	20.000 G	1.00 M	17.845250 G	-46.71
20.000 G	26.500 G	1.00 M	26.175325 G	-42.58

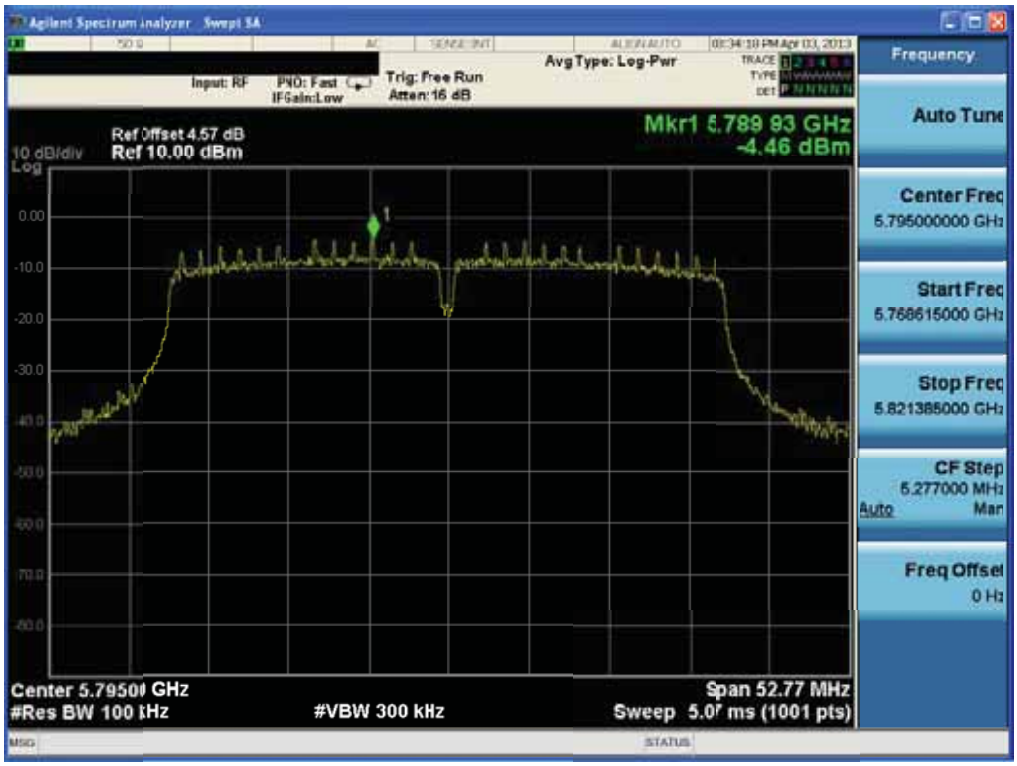






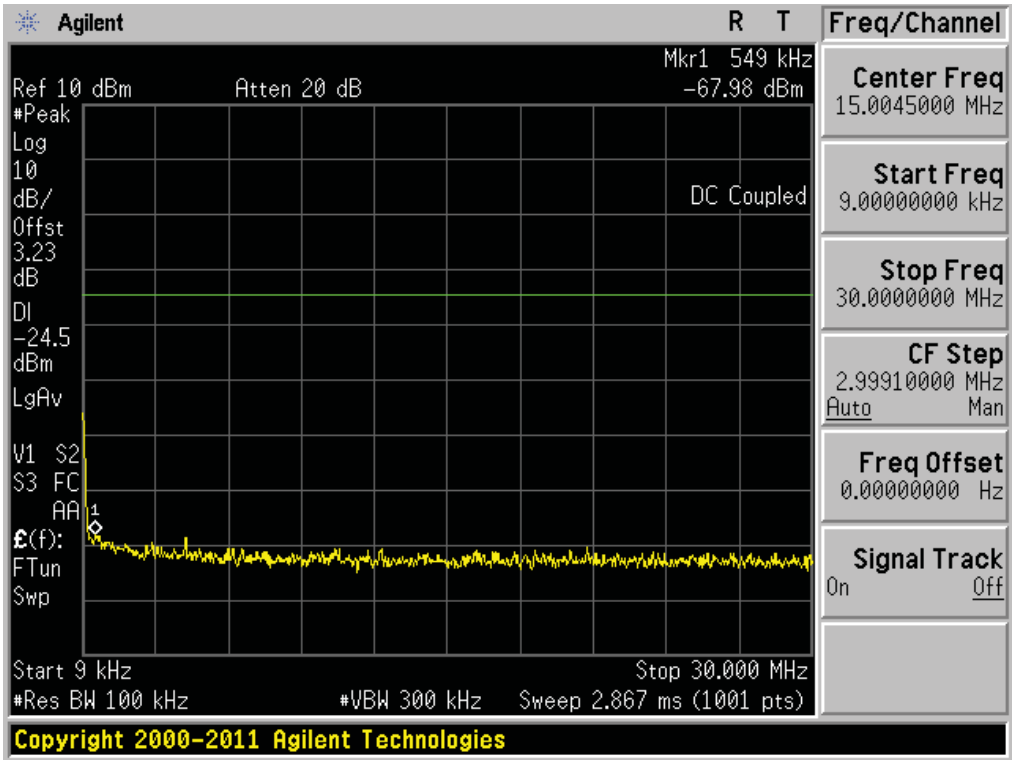
Test Mode: Chain 0 & 802.11n HT40 & MCS 11 & 5795MHz

Reference

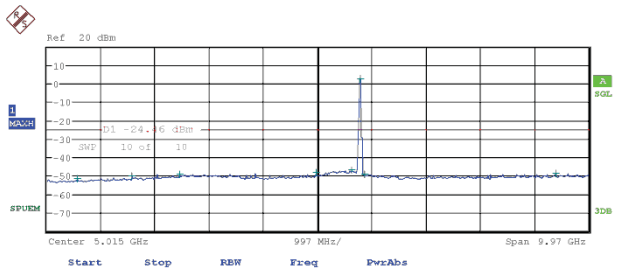


Low Band-edge

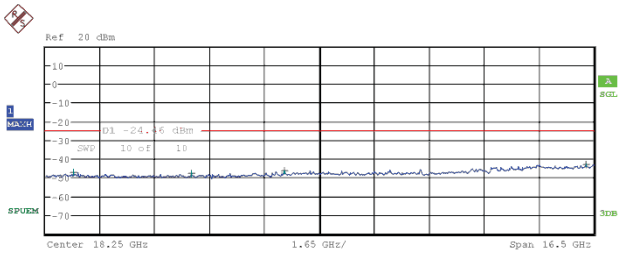
Conducted Spurious Emissions



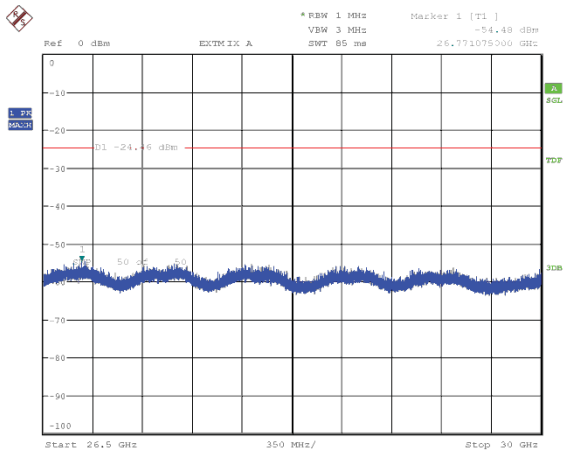
Conducted Spurious Emissions

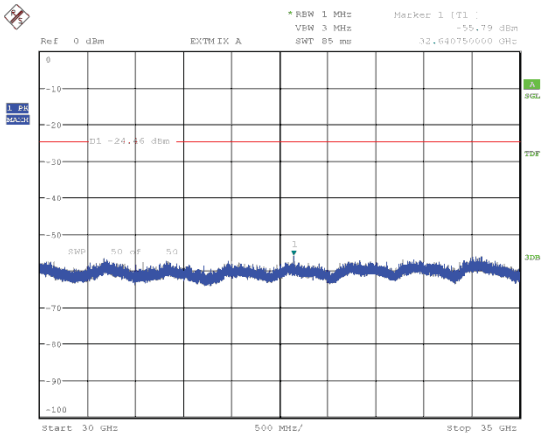


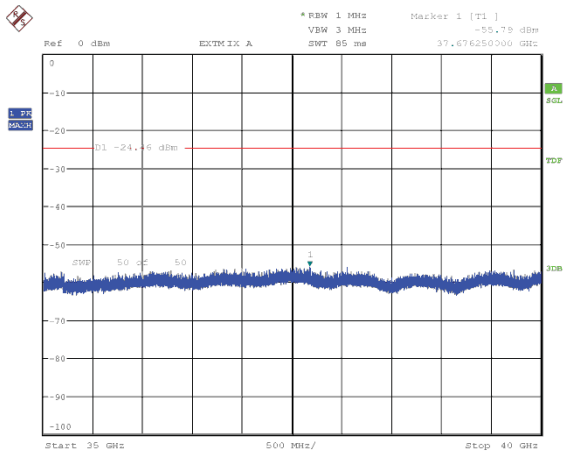
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	582.803000 M	-51.38
1.000 G	2.000 G	1.00 M	1.601800 G	-50.33
2.000 G	3.000 G	1.00 M	2.478200 G	-49.13
3.000 G	5.000 G	1.00 M	4.985600 G	-48.21
5.000 G	5.725 G	1.00 M	5.640537 G	-47.10
5.725 G	5.850 G	1.00 M	5.799525 G	2.21
5.850 G	6.500 G	1.00 M	5.872880 G	-49.04
6.500 G	10.000 G	1.00 M	9.398000 G	-48.70



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.850100 G	-47.32
12.000 G	15.000 G	1.00 M	14.397150 G	-48.06
15.000 G	20.000 G	1.00 M	17.179500 G	-46.56
20.000 G	26.500 G	1.00 M	26.260475 G	-43.28

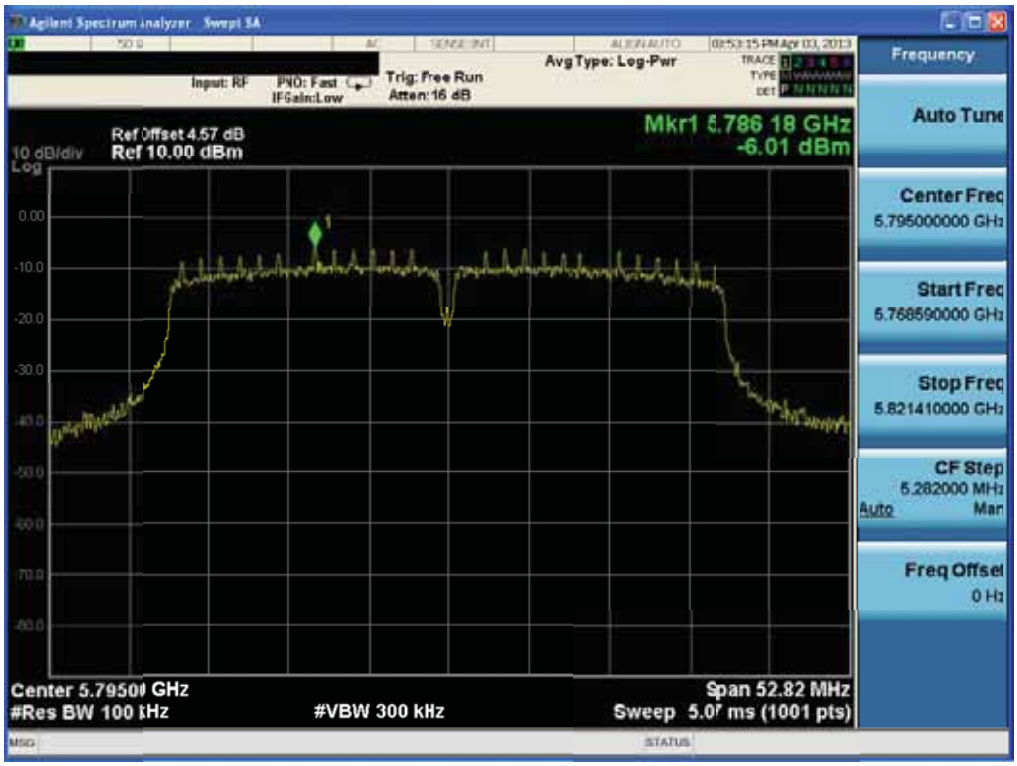






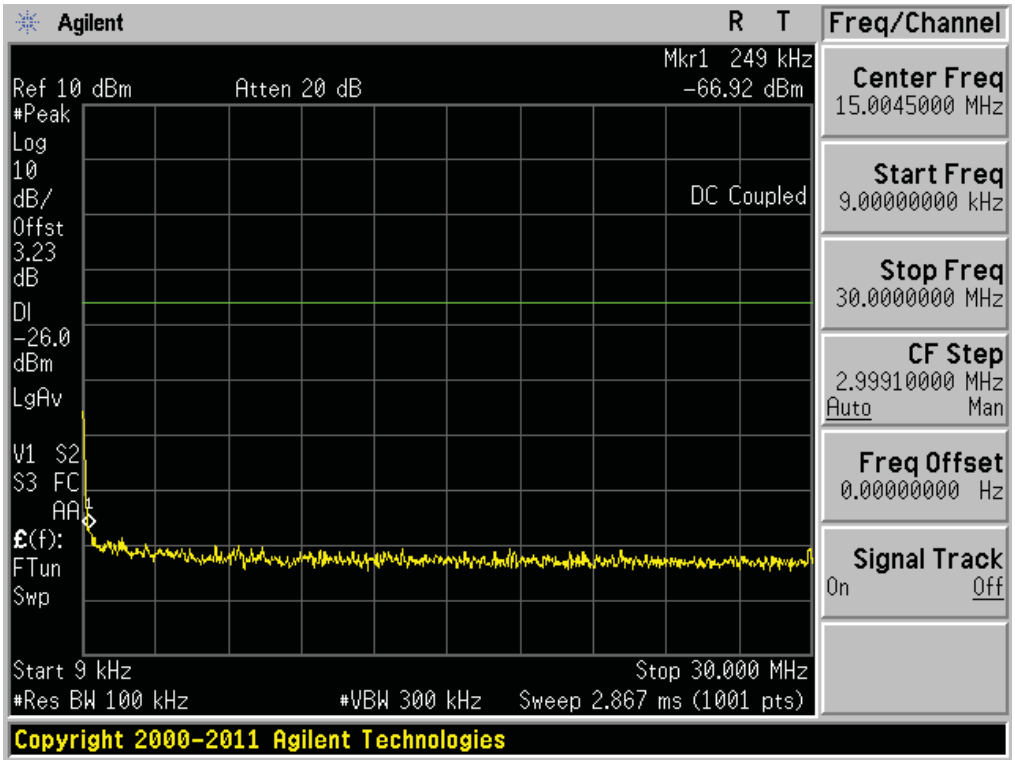
Test Mode: Chain 1 & 802.11n HT40 & MCS 11 & 5795MHz

Reference

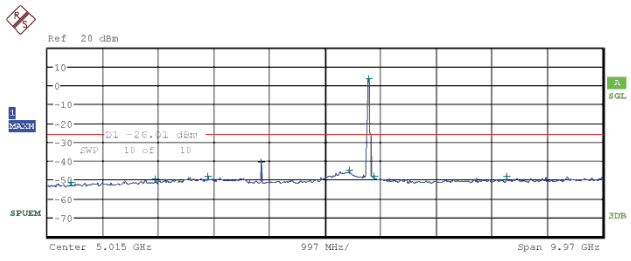


Low Band-edge

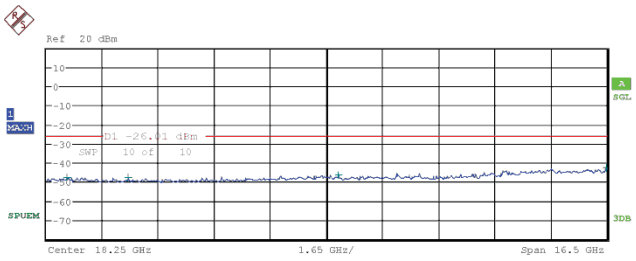
Conducted Spurious Emissions



Conducted Spurious Emissions



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
30.000 M	1.000 G	1.00 M	440.310000 M	-51.64
1.000 G	2.000 G	1.00 M	1.964600 G	-49.74
2.000 G	3.000 G	1.00 M	2.903100 G	-48.17
3.000 G	5.000 G	1.00 M	3.863600 G	-40.66
5.000 G	5.725 G	1.00 M	5.448340 G	-45.24
5.725 G	5.850 G	1.00 M	5.801963 G	3.31
5.850 G	6.500 G	1.00 M	5.889780 G	-48.29
6.500 G	10.000 G	1.00 M	8.277650 G	-48.22



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]
10.000 G	12.000 G	1.00 M	10.618300 G	-47.63
12.000 G	15.000 G	1.00 M	12.393450 G	-47.76
15.000 G	20.000 G	1.00 M	18.598750 G	-46.40
20.000 G	26.500 G	1.00 M	26.480825 G	-42.75