

7. RF Antenna conducted Spurious

Name of Test	RF Antenna Conducted Spurious
Base Standard	FCC 15.247(d)

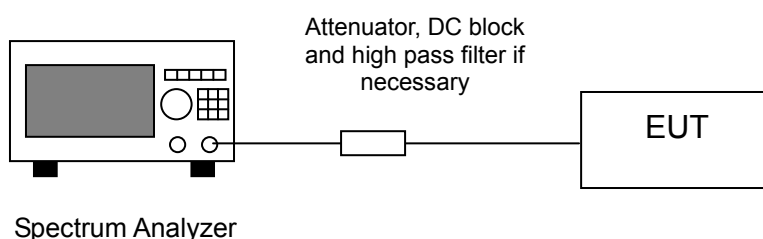
Test Result: Complies
Measurement Data: See plots below

Method of Measurement:

Reference FCC document: KDB558074

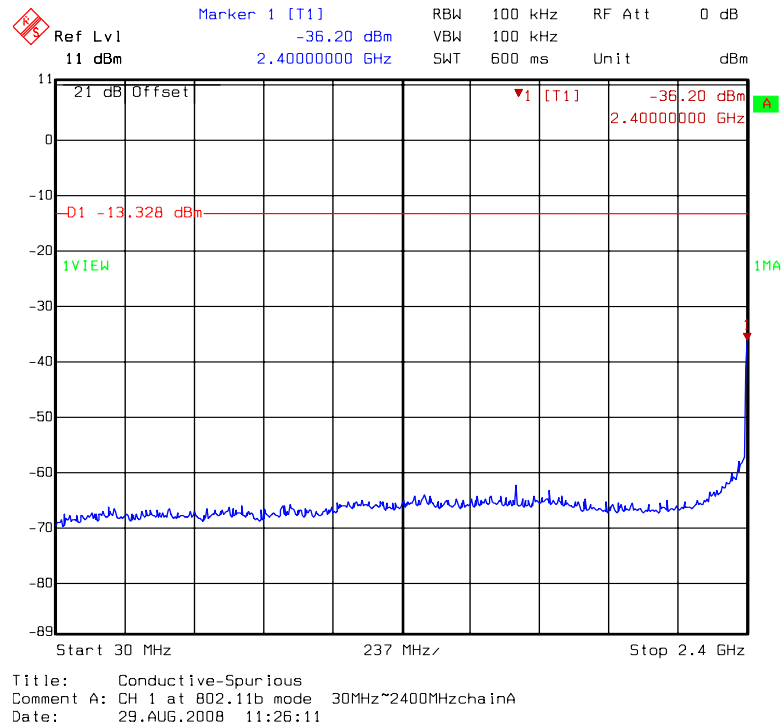
The measurements were performed from 30 MHz to 25 GHz RF antenna conducted per FCC 15.247 (d) was measured from the EUT antenna port using a 50 ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 100 kHz. Harmonics and spurious noise must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The table below is the results from the highest emission for each channel within the authorized band. This table was used to determine the spurious limits for each channel.

Test Diagram:

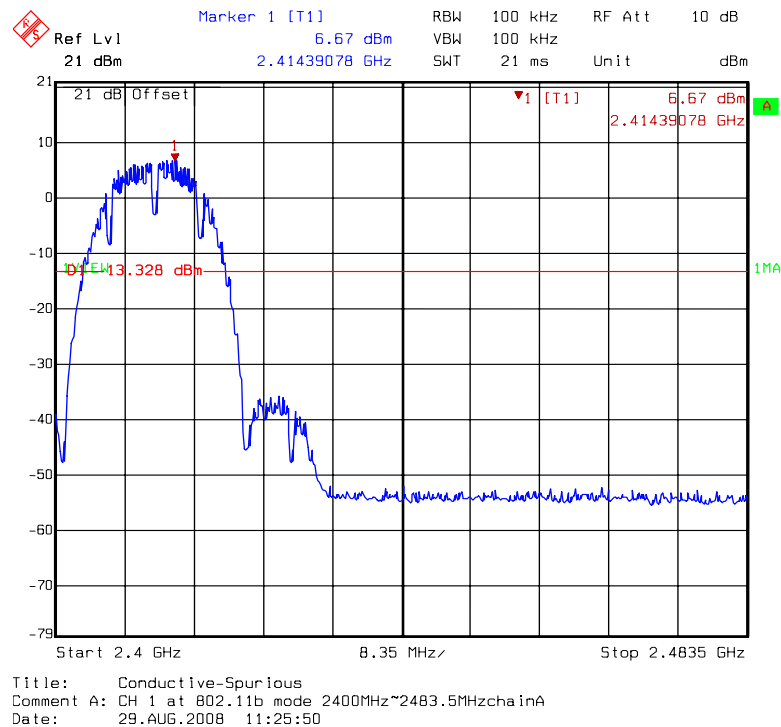


- Note:**
- (1) The EUT was tested while in a continuous transmit mode and the worst case data rates are 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n HT20 mode and 13.5 Mbps data rate for 802.11n HT40 mode. The EUT was tuned to a low, middle and high channel.
 - (2) The EUT operating at 2.4 GHz ISM band. Frequency Range scanned from 30 MHz to 25 GHz.

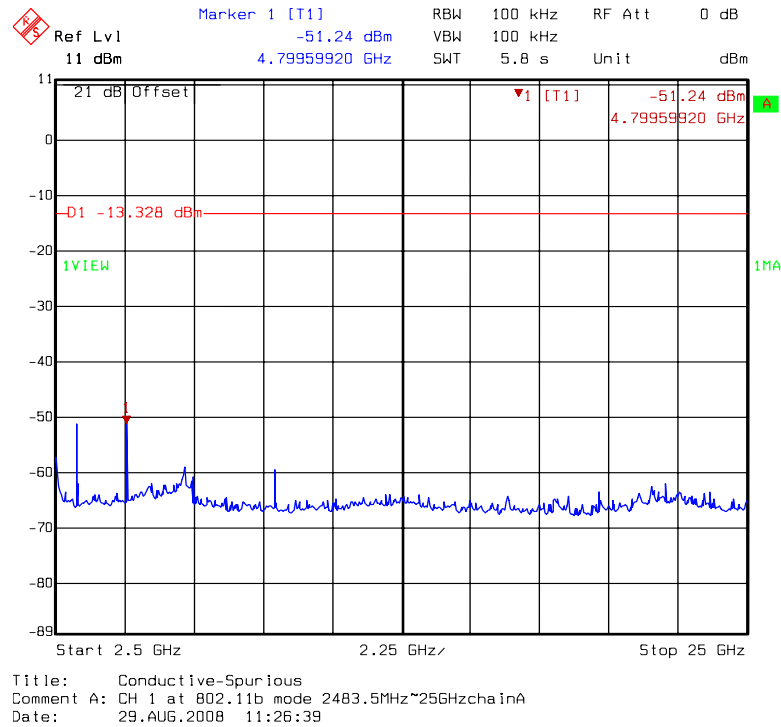
Chain A: conducted spurious @ 802.11b mode channel 1 (1 of 3)



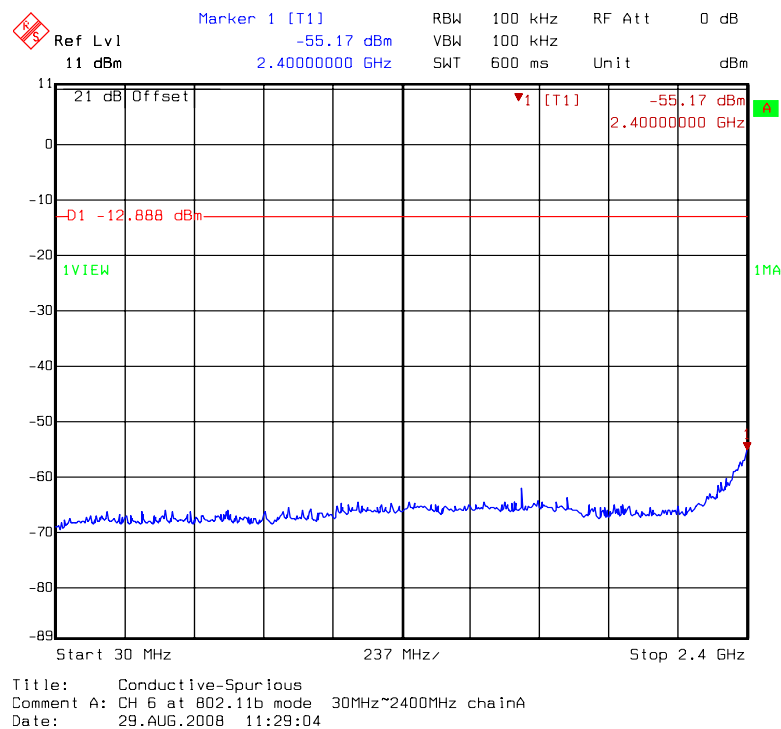
Chain A: conducted spurious @ 802.11b mode channel 1 (2 of 3)



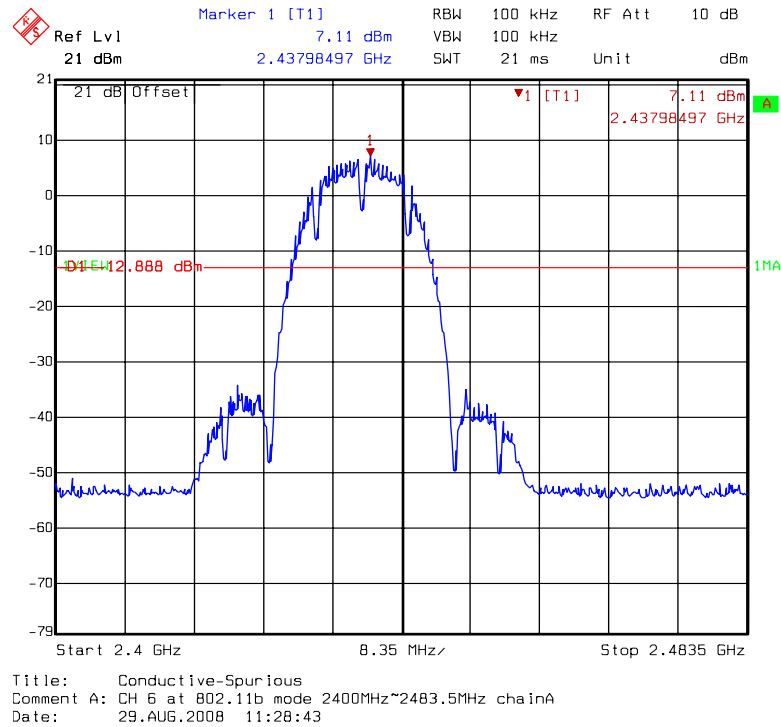
Chain A: conducted spurious @ 802.11b mode channel 1 (3 of 3)



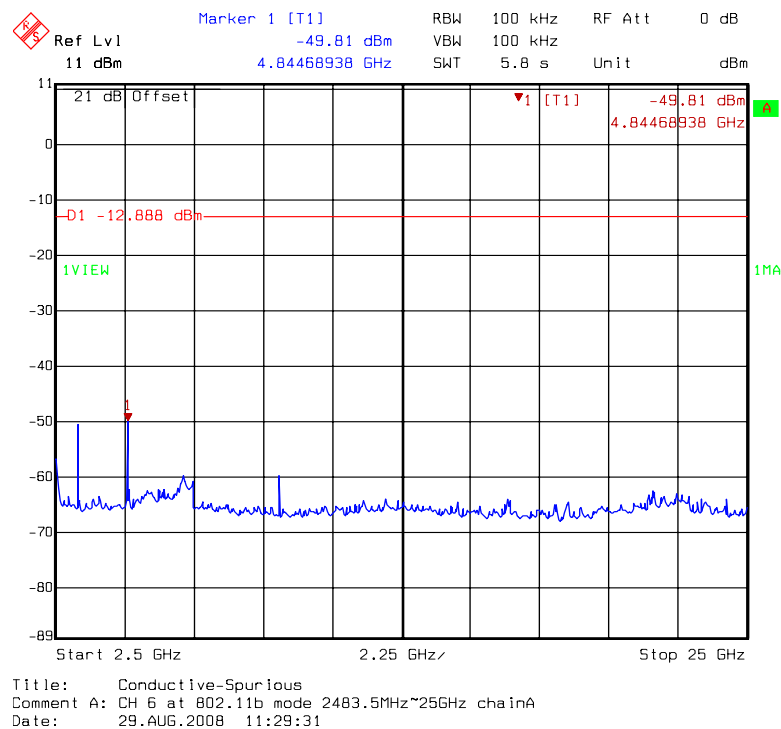
Chain A: conducted spurious @ 802.11b mode channel 6 (1 of 3)



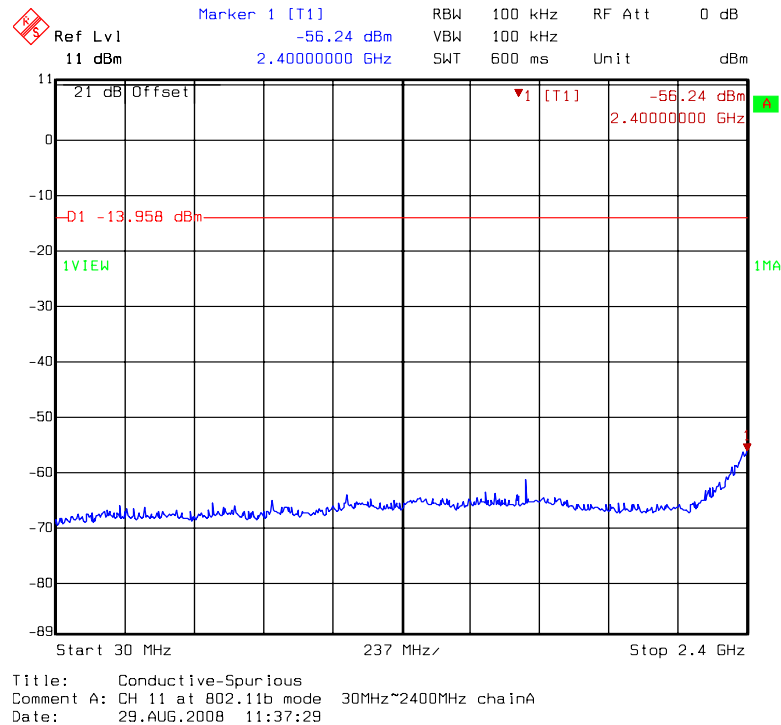
Chain A: conducted spurious @ 802.11b mode channel 6 (2 of 3)



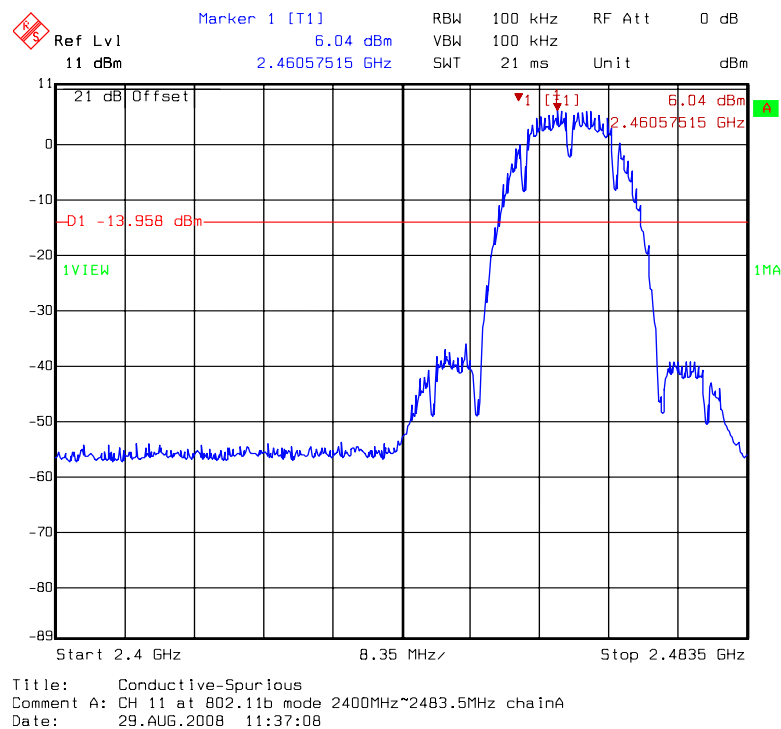
Chain A: conducted spurious @ 802.11b mode channel 6 (3 of 3)



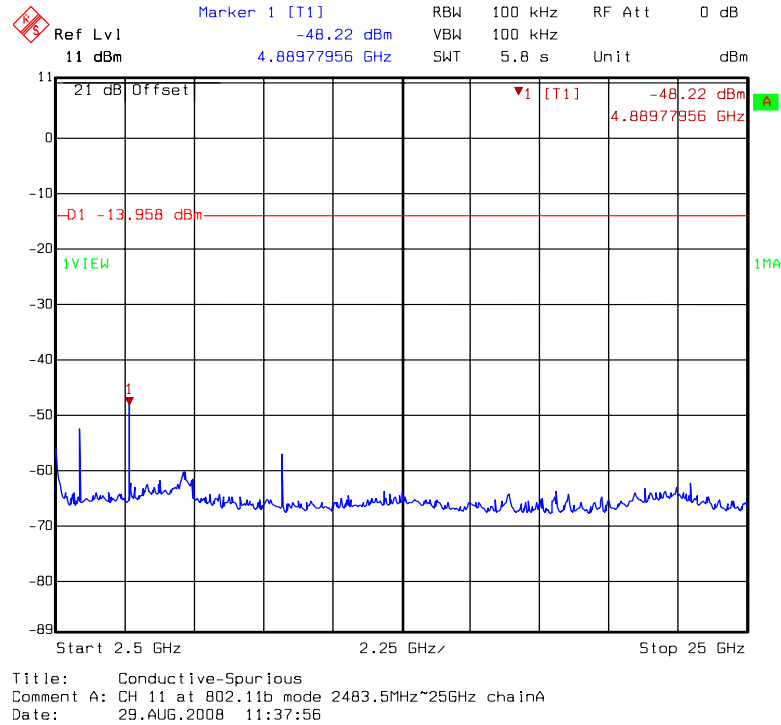
Chain A: conducted spurious @ 802.11b mode channel 11 (1 of 3)



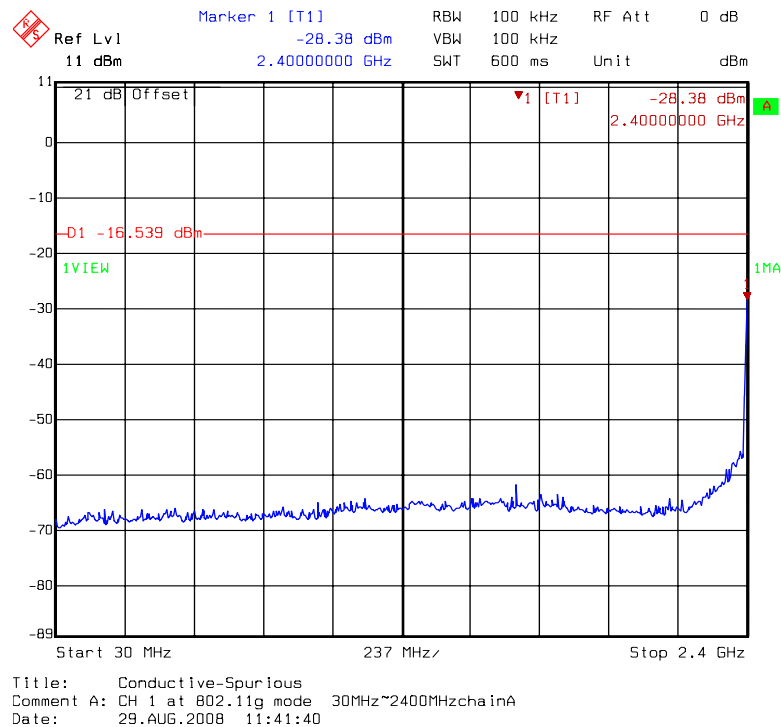
Chain A: conducted spurious @ 802.11b mode channel 11 (2 of 3)



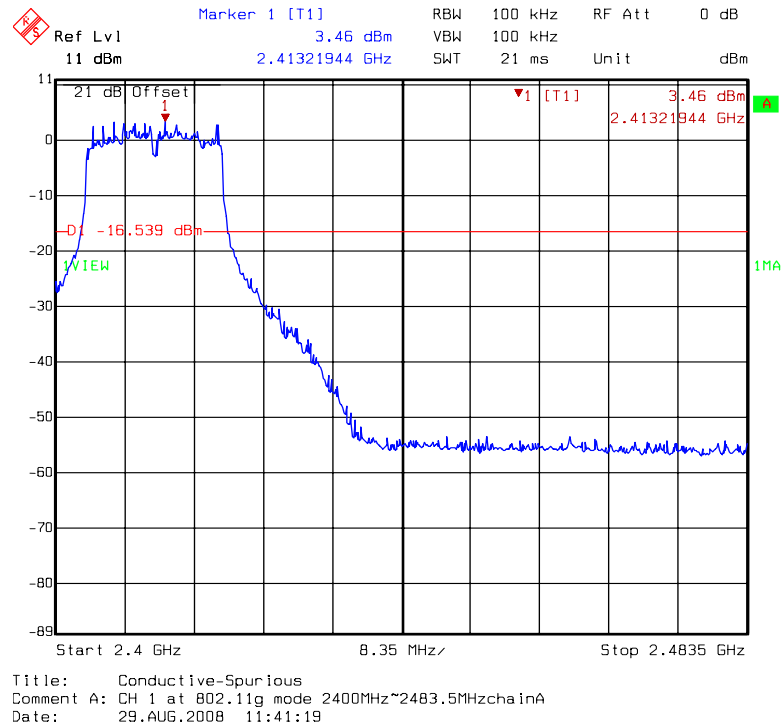
Chain A: conducted spurious @ 802.11b mode channel 11 (3 of 3)



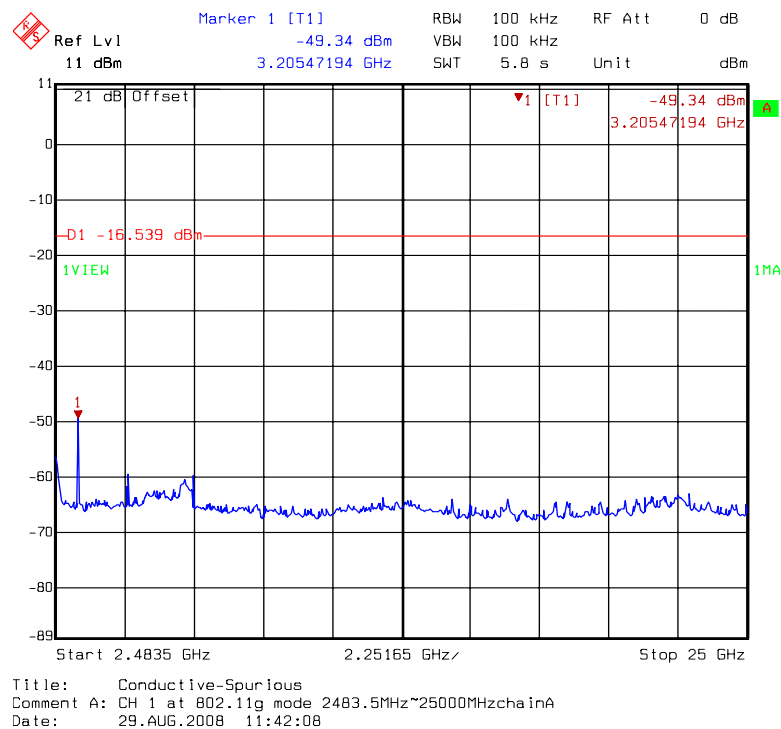
Chain A: conducted spurious @ 802.11g mode channel 1 (1 of 3)



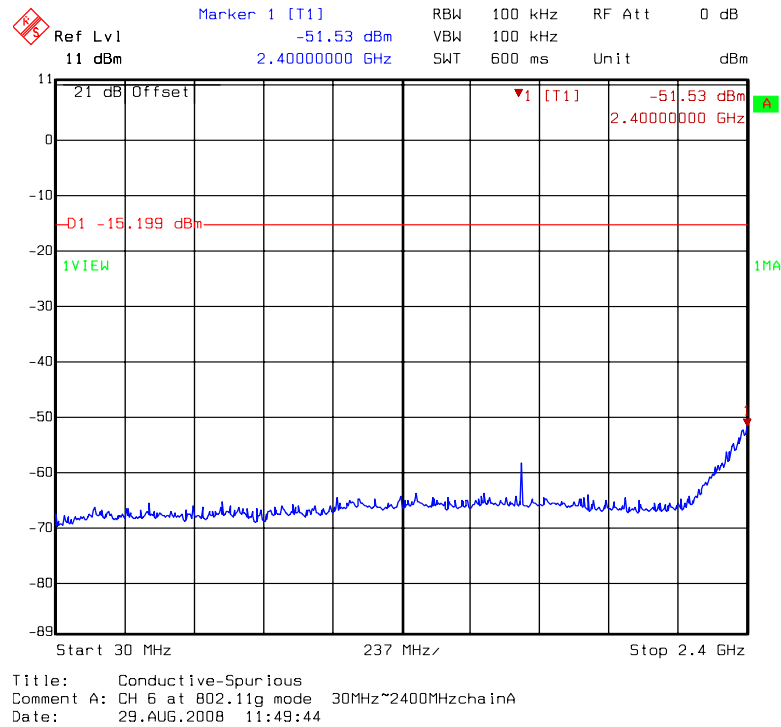
Chain A: conducted spurious @ 802.11g mode channel 1 (2 of 3)



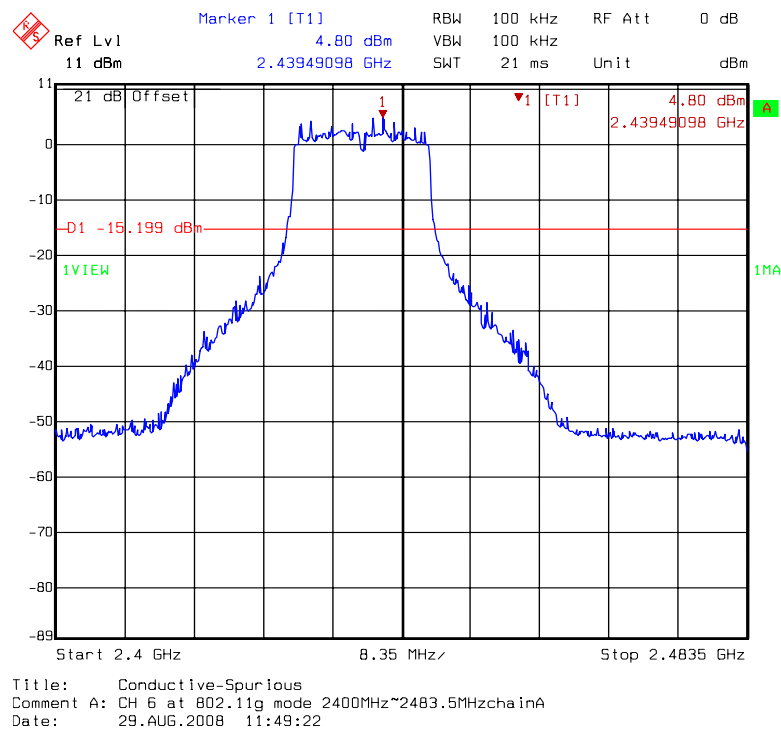
Chain A: conducted spurious @ 802.11g mode channel 1 (3 of 3)



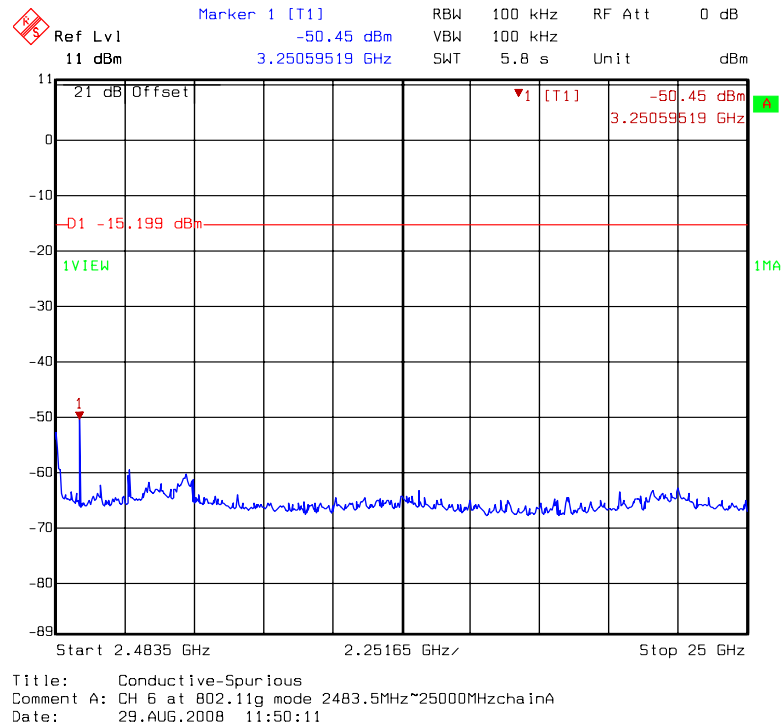
Chain A: conducted spurious @ 802.11g mode channel 6 (1 of 3)



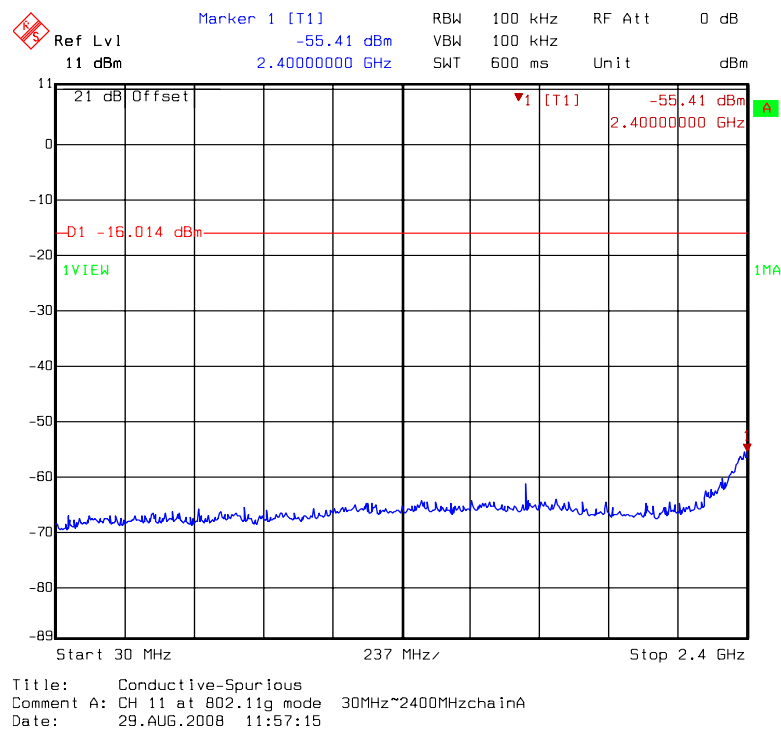
Chain A: conducted spurious @ 802.11g mode channel 6 (2 of 3)



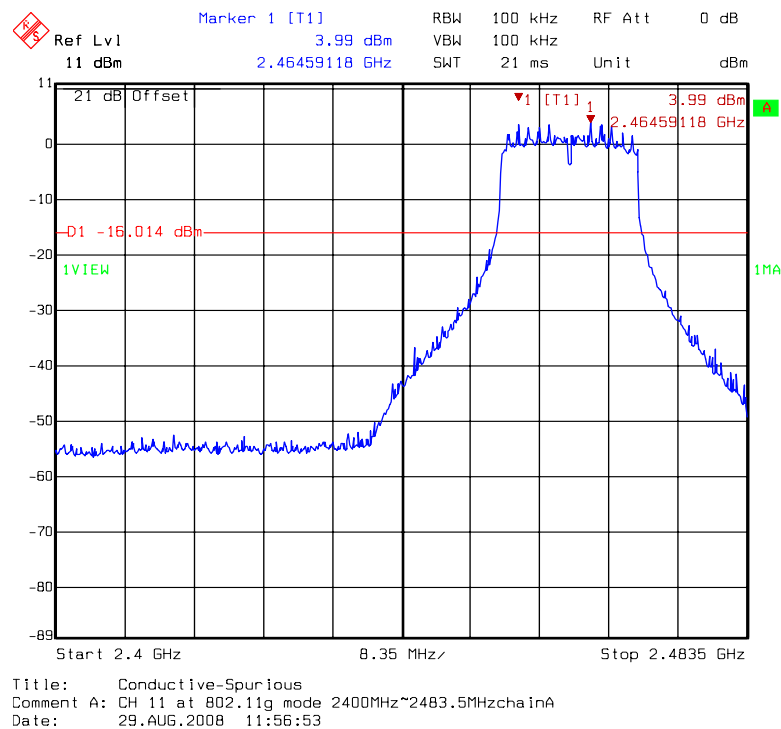
Chain A: conducted spurious @ 802.11g mode channel 6 (3 of 3)



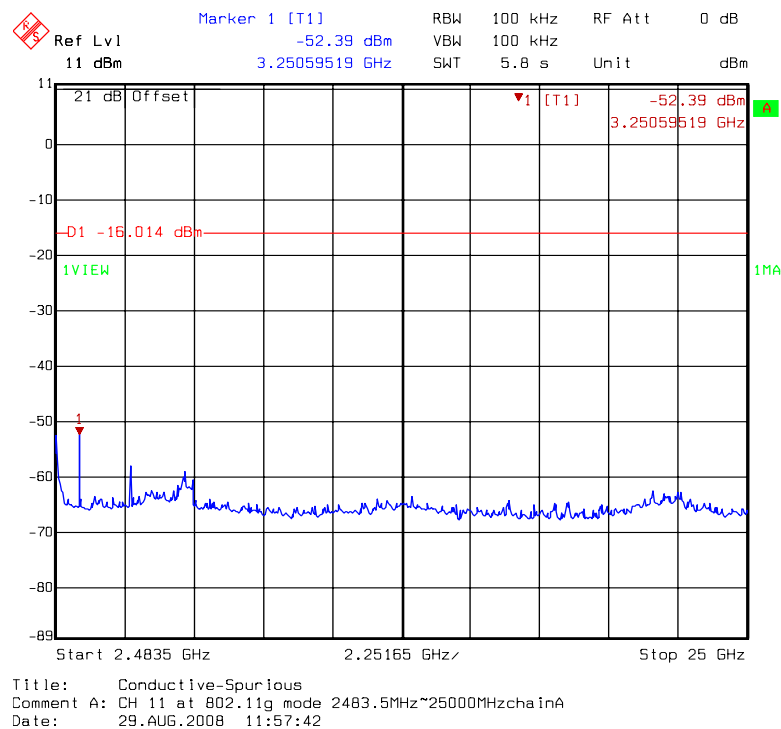
Chain A: conducted spurious @ 802.11g mode channel 11 (1 of 3)



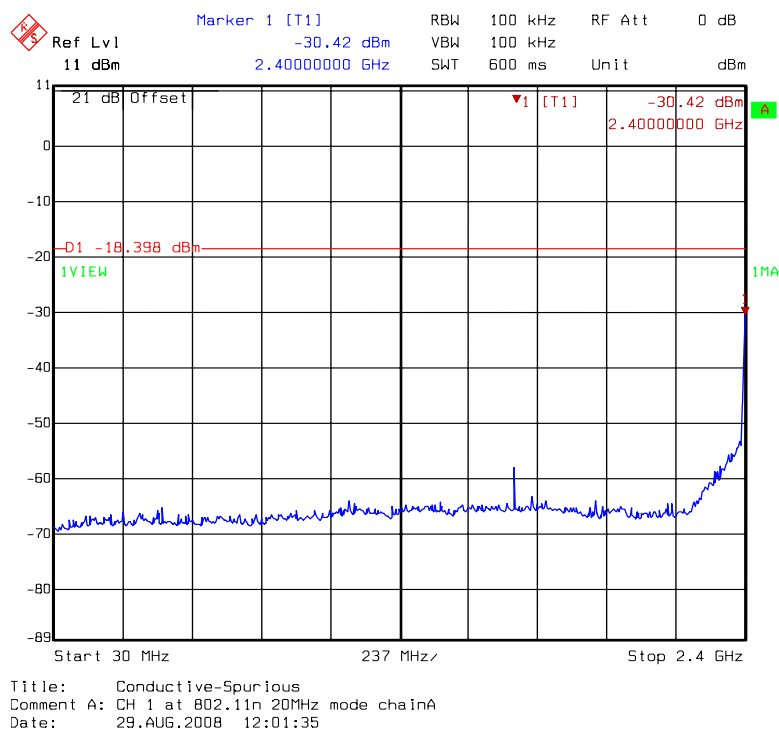
Chain A: conducted spurious @ 802.11g mode channel 11 (2 of 3)



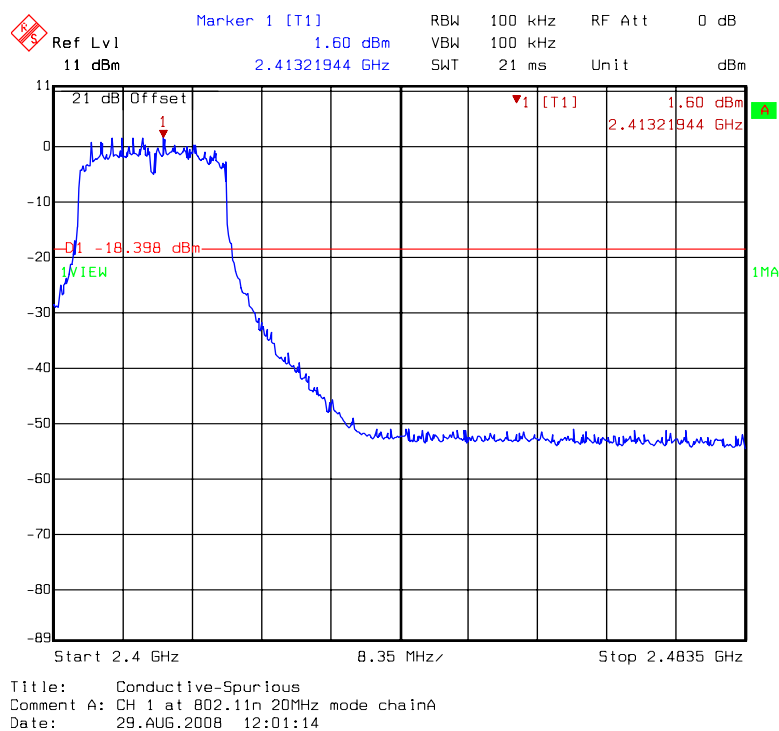
Chain A: conducted spurious @ 802.11g mode channel 11 (3 of 3)



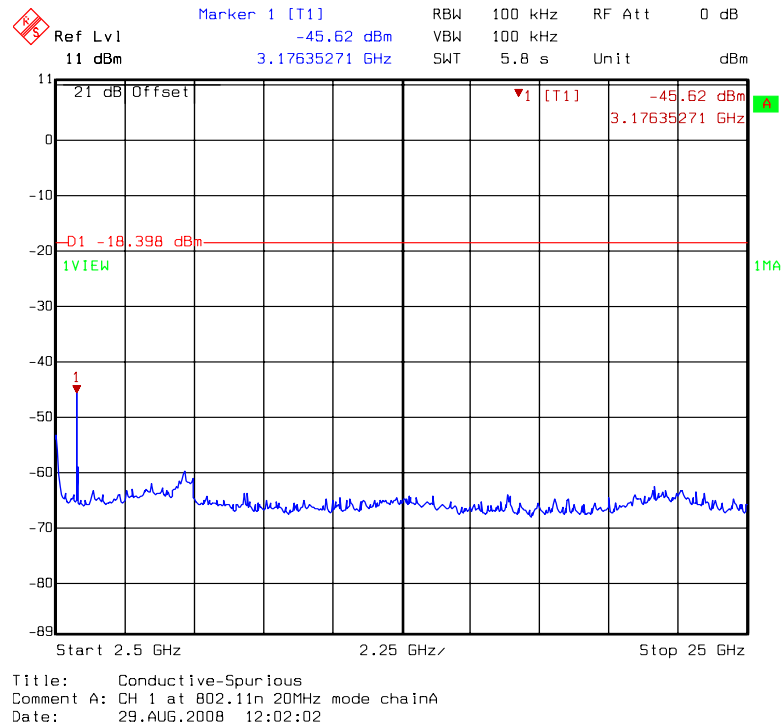
Chain A: conducted spurious @ 802.11n HT20 mode channel 1 (1 of 3)



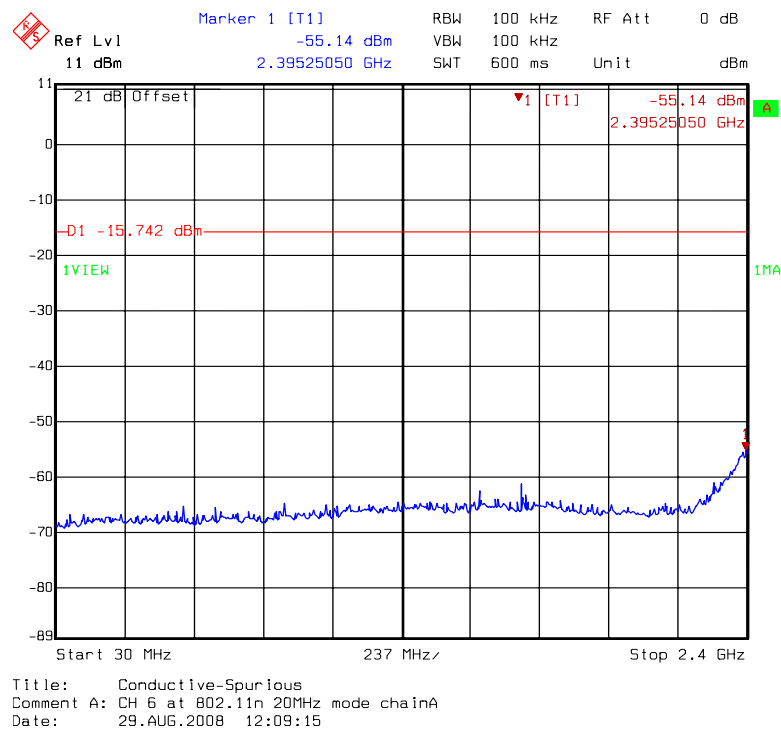
Chain A: conducted spurious @ 802.11n HT20 mode channel 1 (2 of 3)



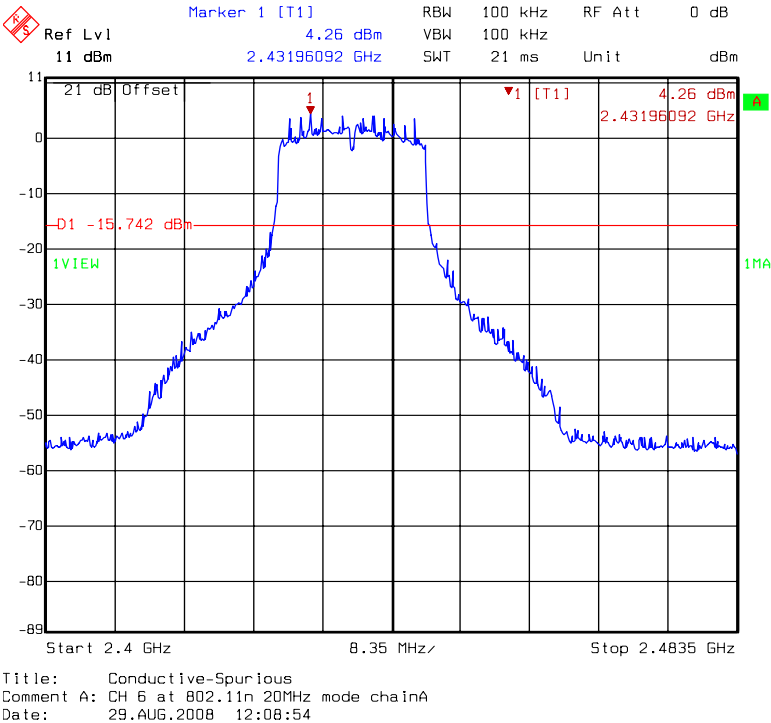
Chain A: conducted spurious @ 802.11n HT20 mode channel 1 (3 of 3)



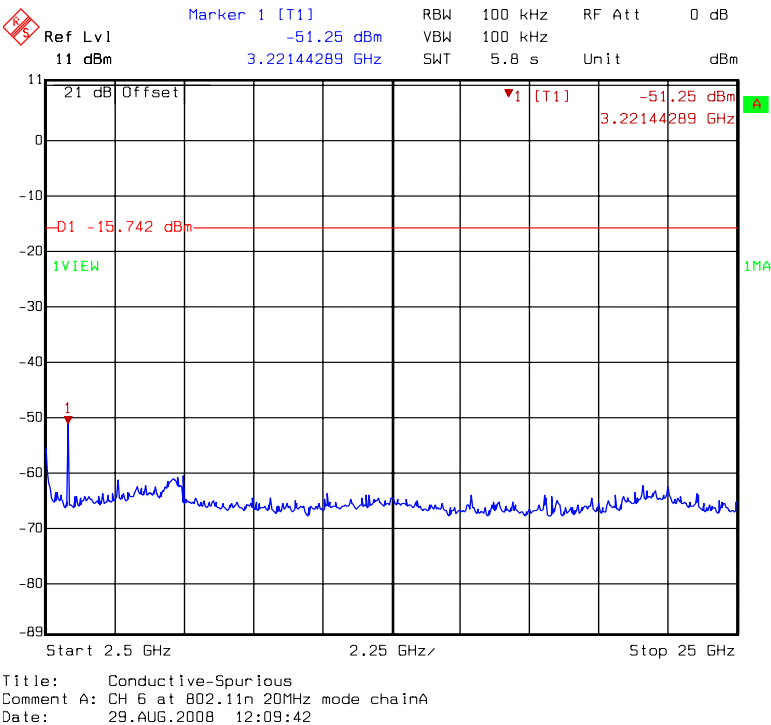
Chain A: conducted spurious @ 802.11n HT20 mode channel 6 (1 of 3)



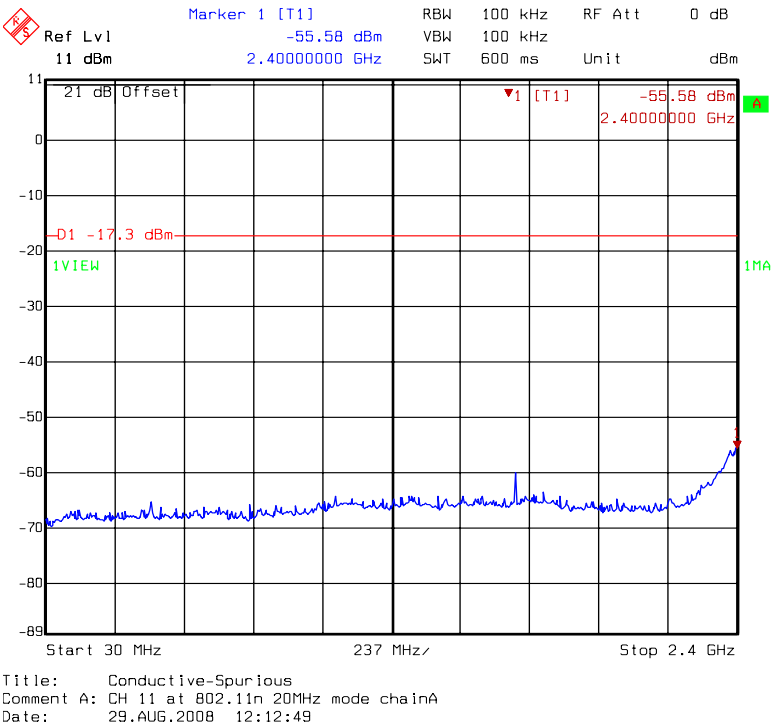
Chain A: conducted spurious @ 802.11n HT20 mode channel 6 (2 of 3)



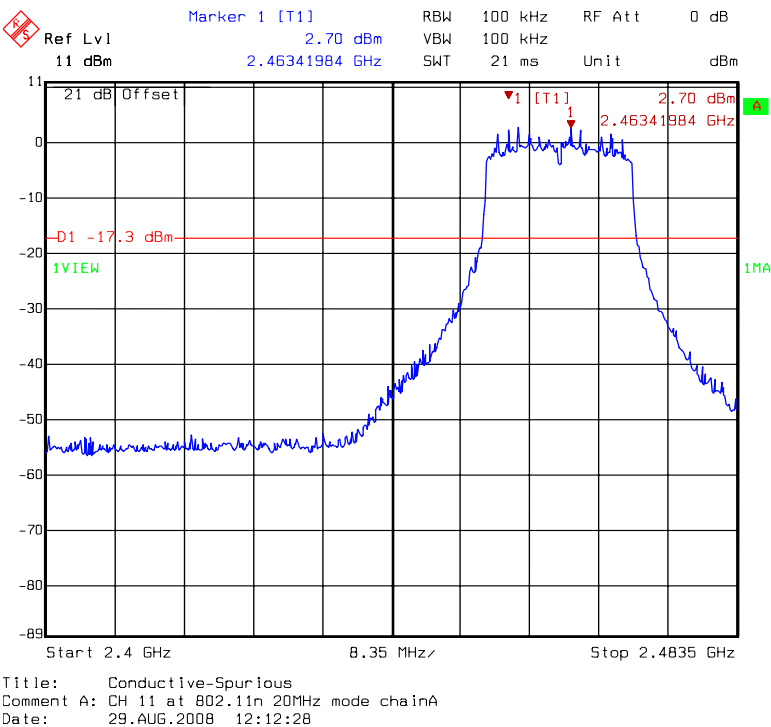
Chain A: conducted spurious @ 802.11n HT20 mode channel 6 (3 of 3)



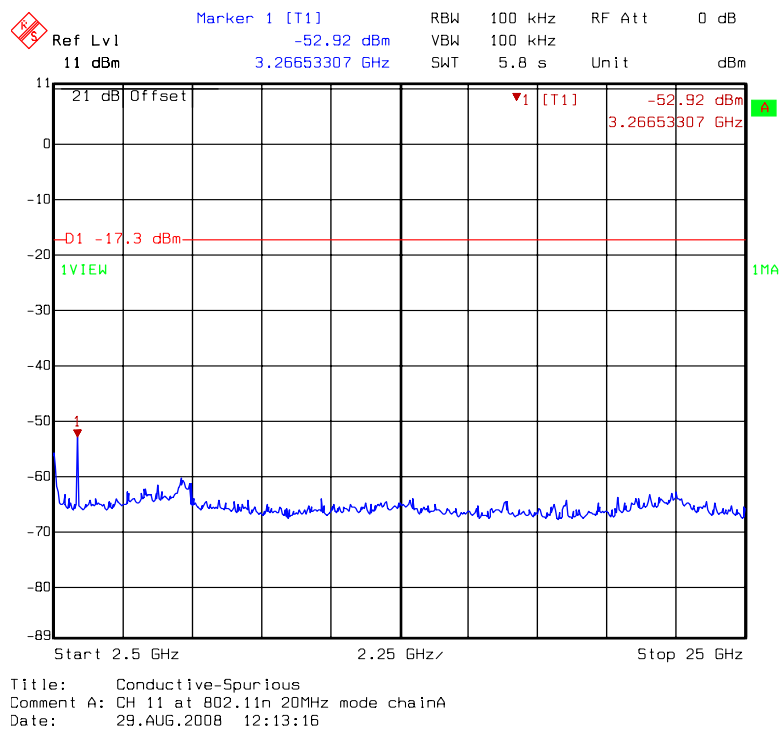
Chain A: conducted spurious @ 802.11n HT20 mode channel 11 (1 of 3)



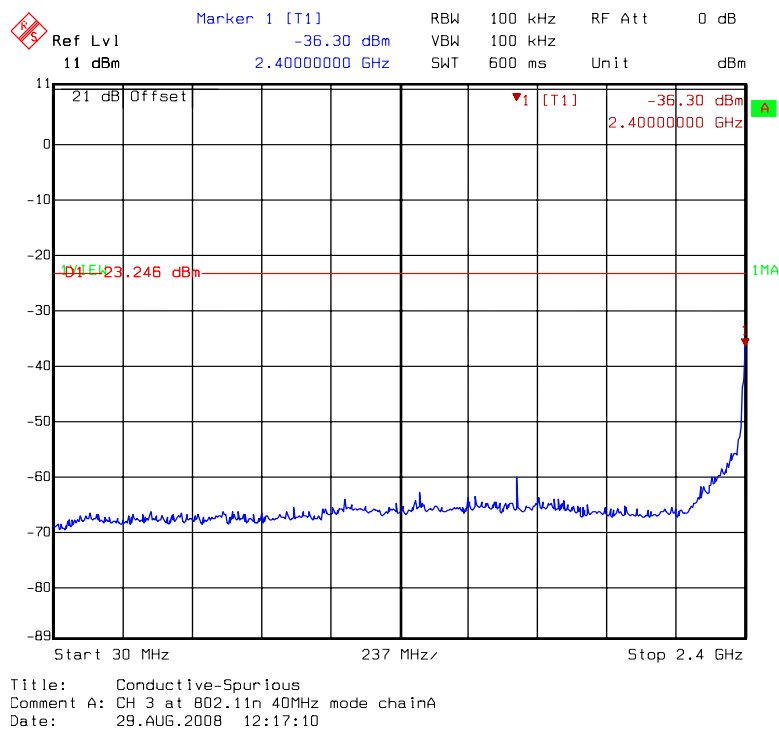
Chain A: conducted spurious @ 802.11n HT20 mode channel 11 (2 of 3)



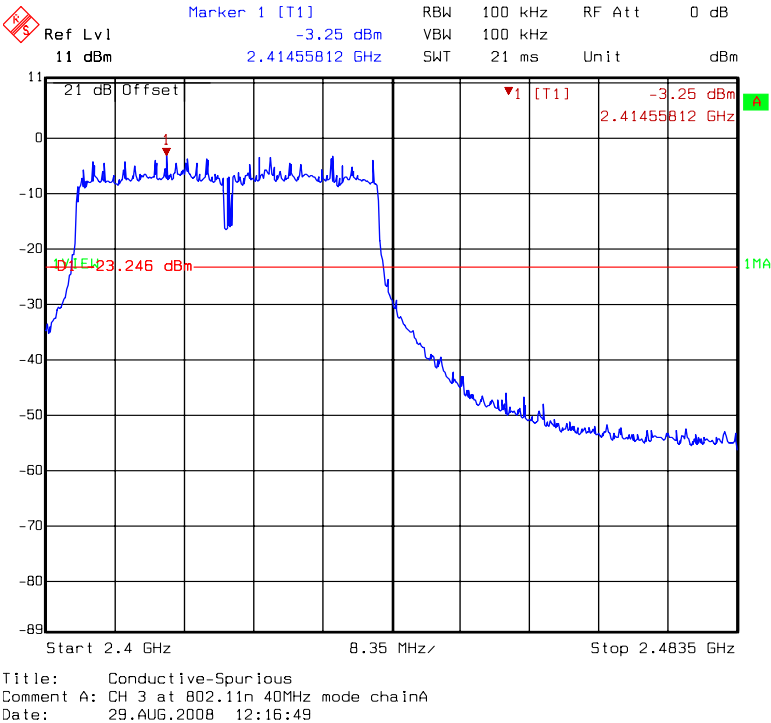
Chain A: conducted spurious @ 802.11n HT20 mode channel 11 (3 of 3)



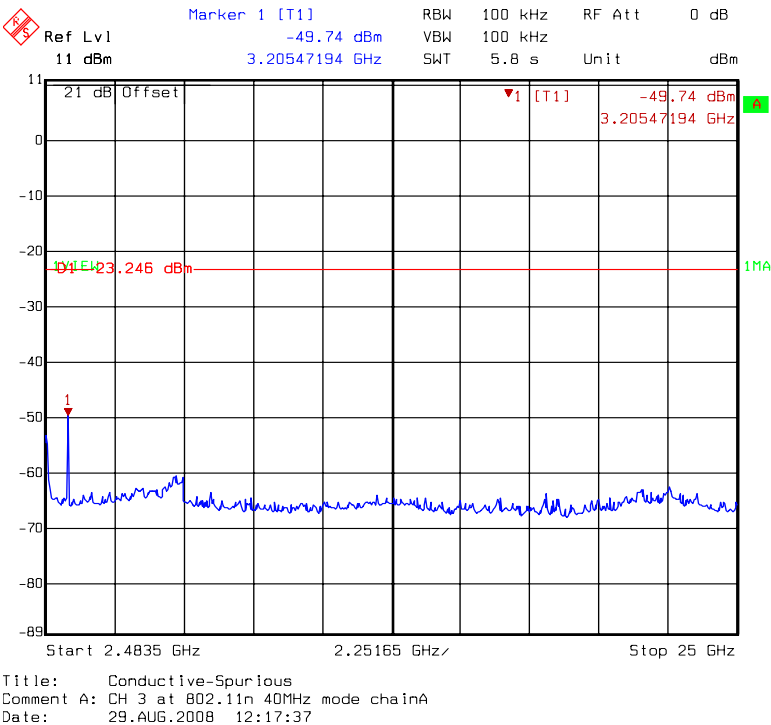
Chain A: conducted spurious @ 802.11n HT40 mode channel 3 (1 of 3)



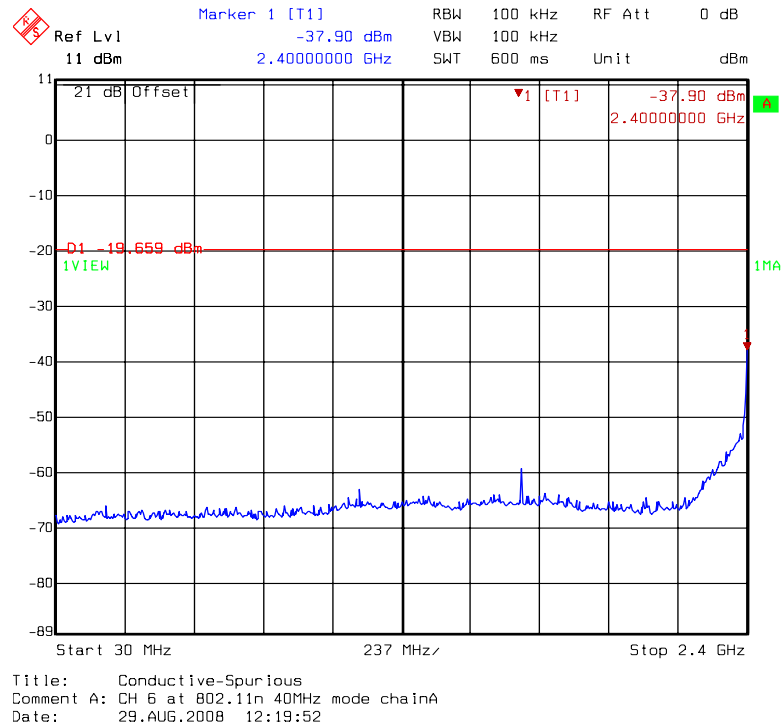
Chain A: conducted spurious @ 802.11n HT40 mode channel 3 (2 of 3)



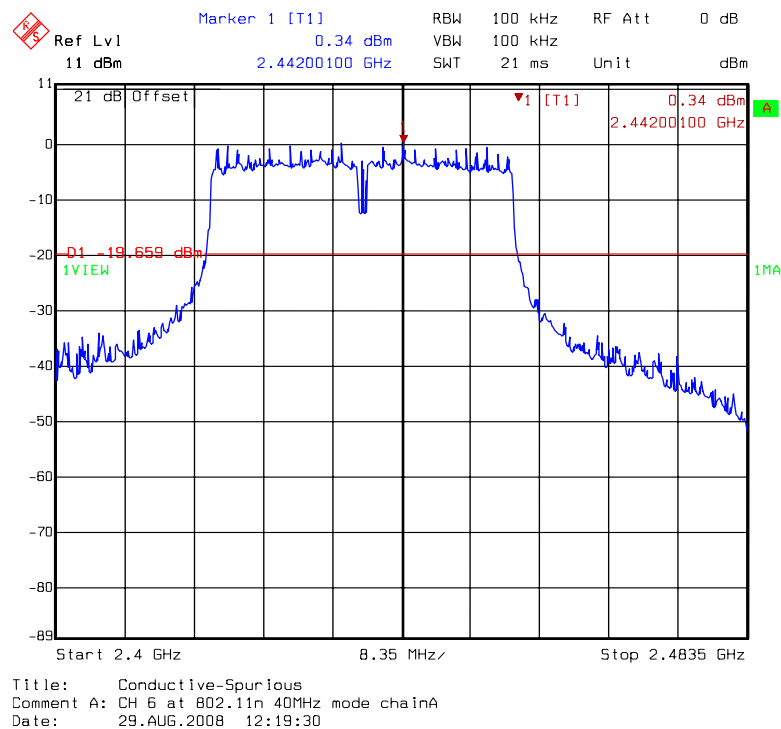
Chain A: conducted spurious @ 802.11n HT40 mode channel 3 (3 of 3)



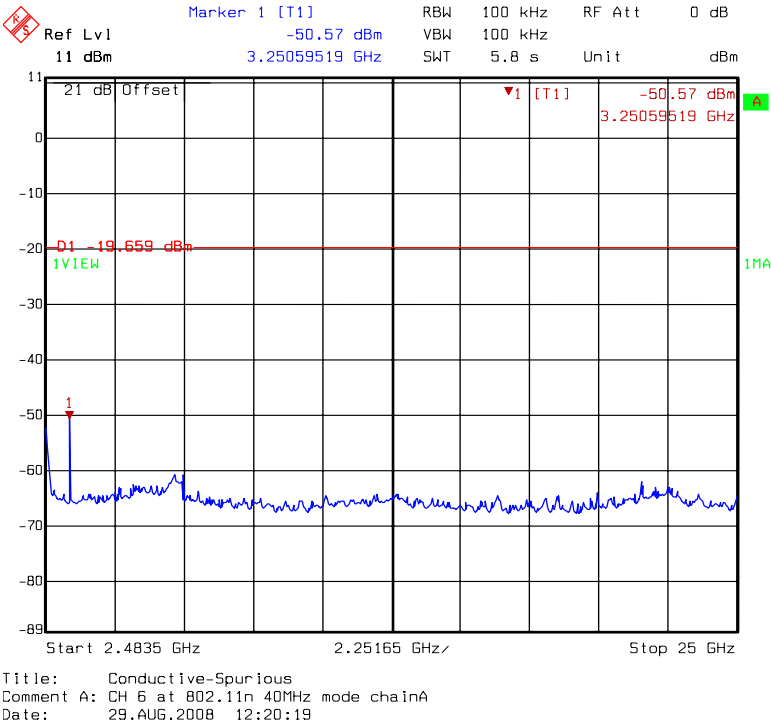
Chain A: conducted spurious @ 802.11n HT40 mode channel 6 (1 of 3)



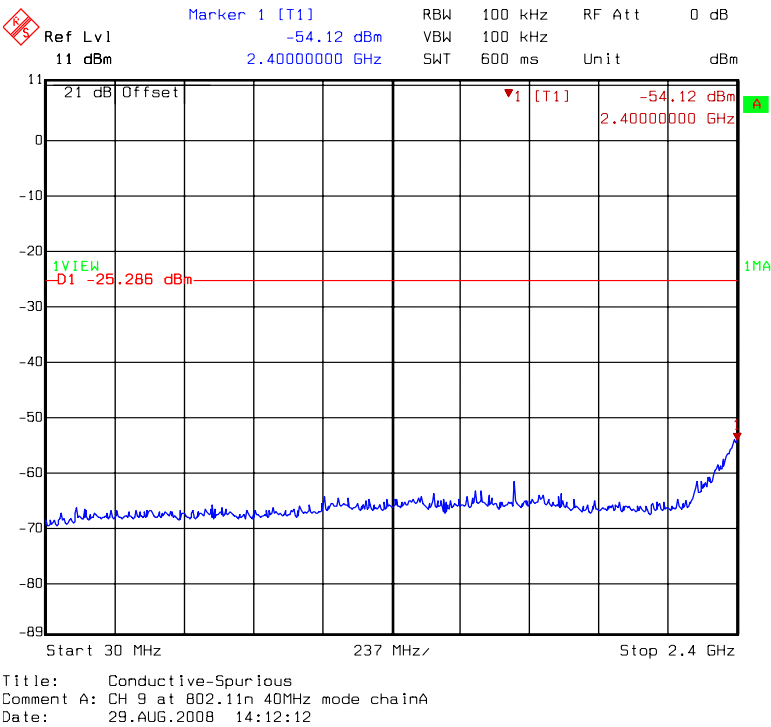
Chain A: conducted spurious @ 802.11n HT40 mode channel 6 (2 of 3)



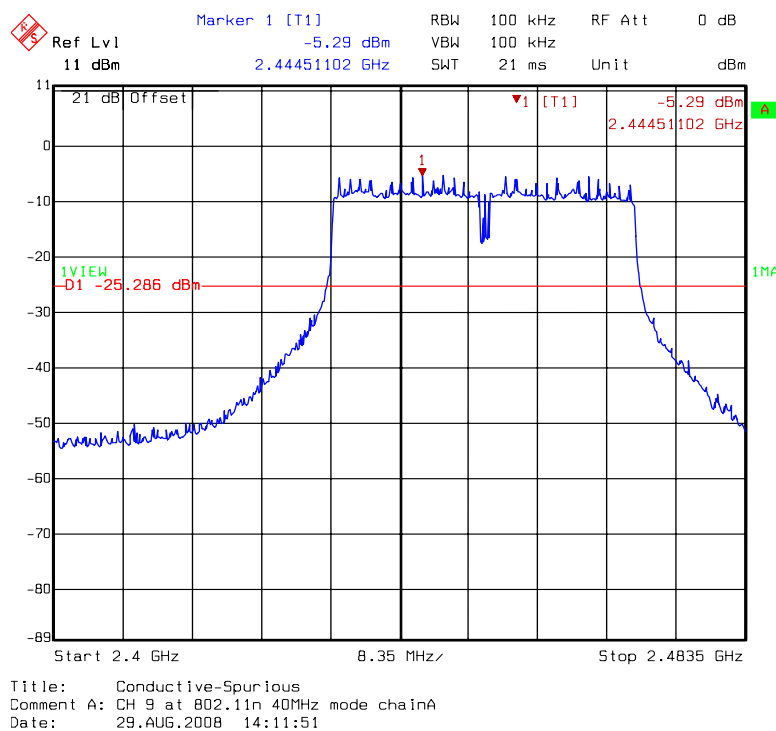
Chain A: conducted spurious @ 802.11n HT40 mode channel 6 (3 of 3)



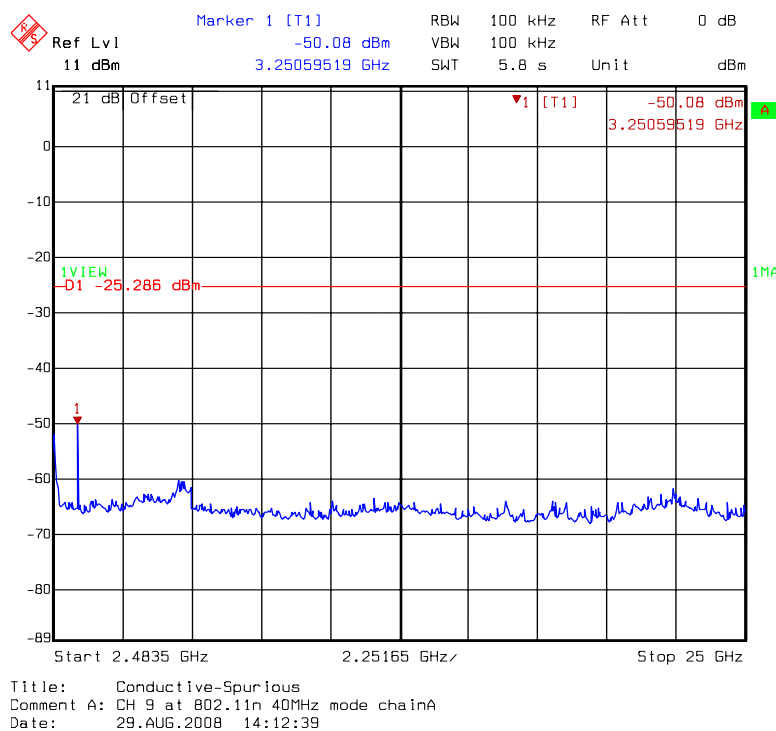
Chain A: conducted spurious @ 802.11n HT40 mode channel 9 (1 of 3)



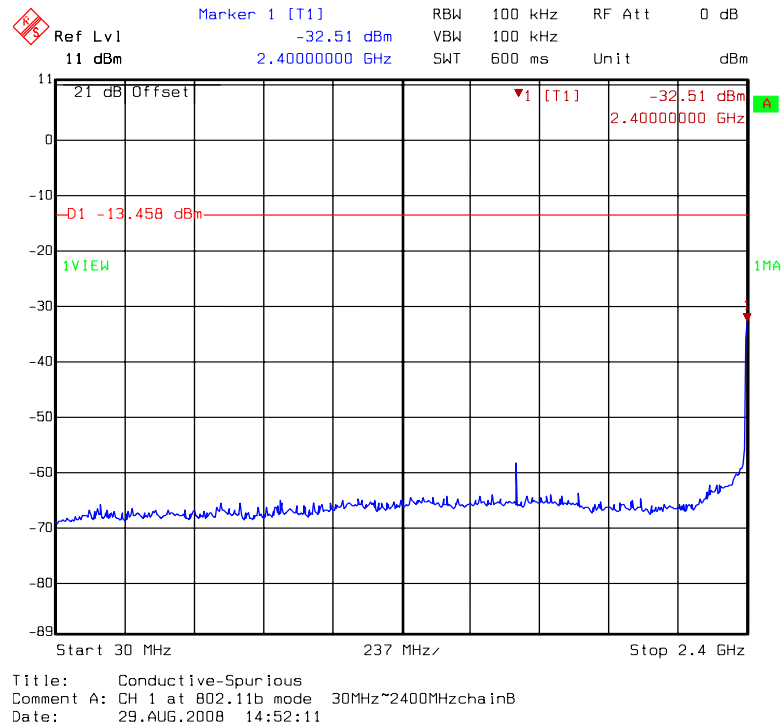
Chain A: conducted spurious @ 802.11n HT40 mode channel 9 (2 of 3)



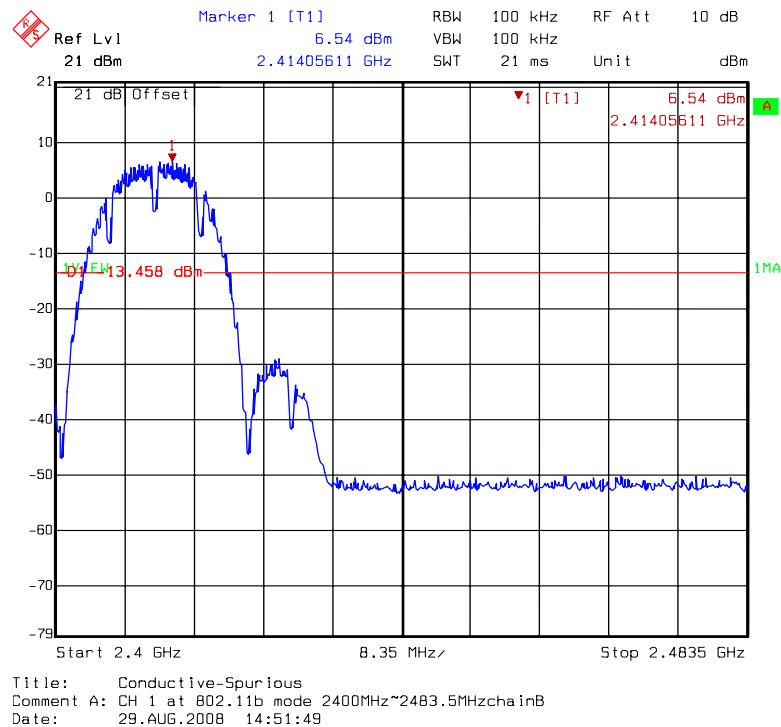
Chain A: conducted spurious @ 802.11n HT40 mode channel 9 (3 of 3)



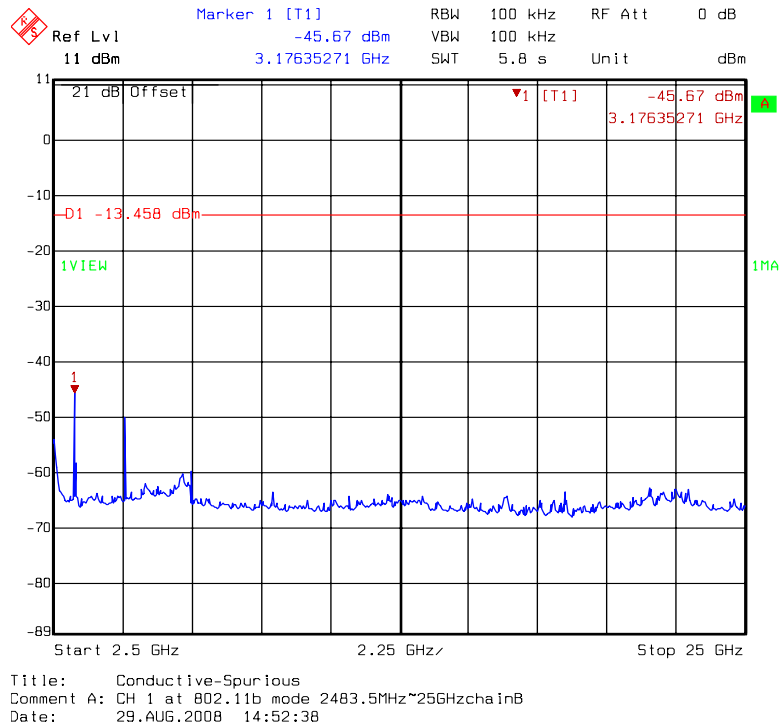
Chain B: conducted spurious @ 802.11b mode channel 1 (1 of 3)



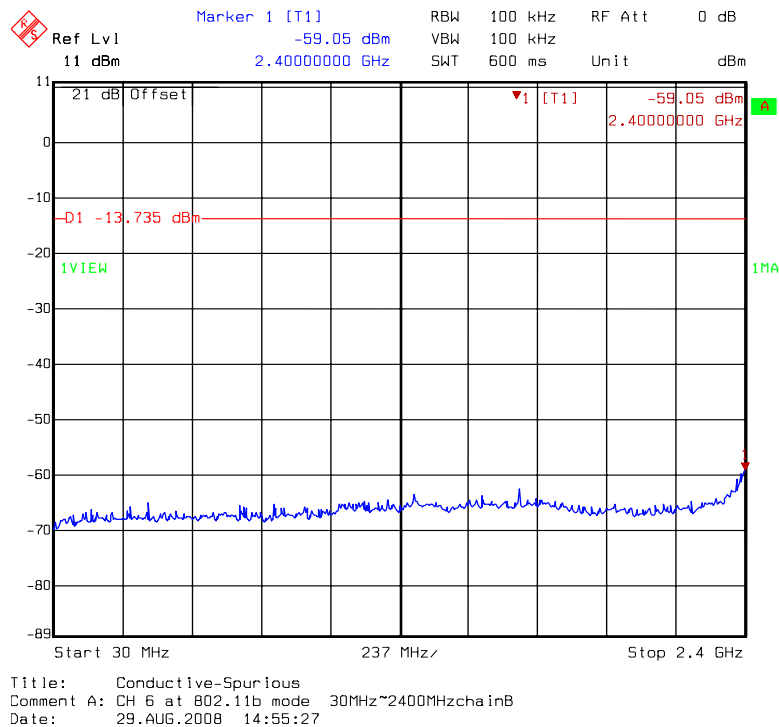
Chain B: conducted spurious @ 802.11b mode channel 1 (2 of 3)



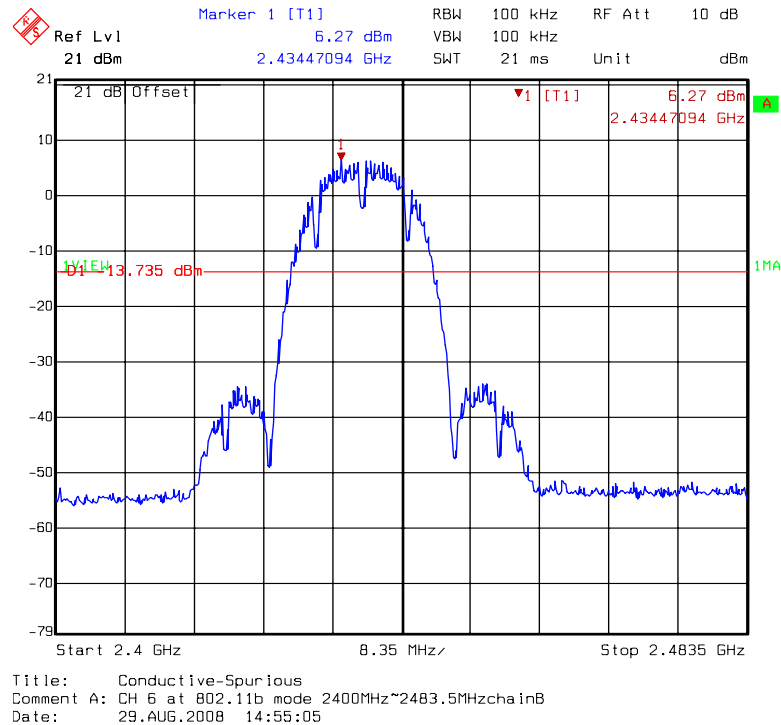
Chain B: conducted spurious @ 802.11b mode channel 1 (3 of 3)



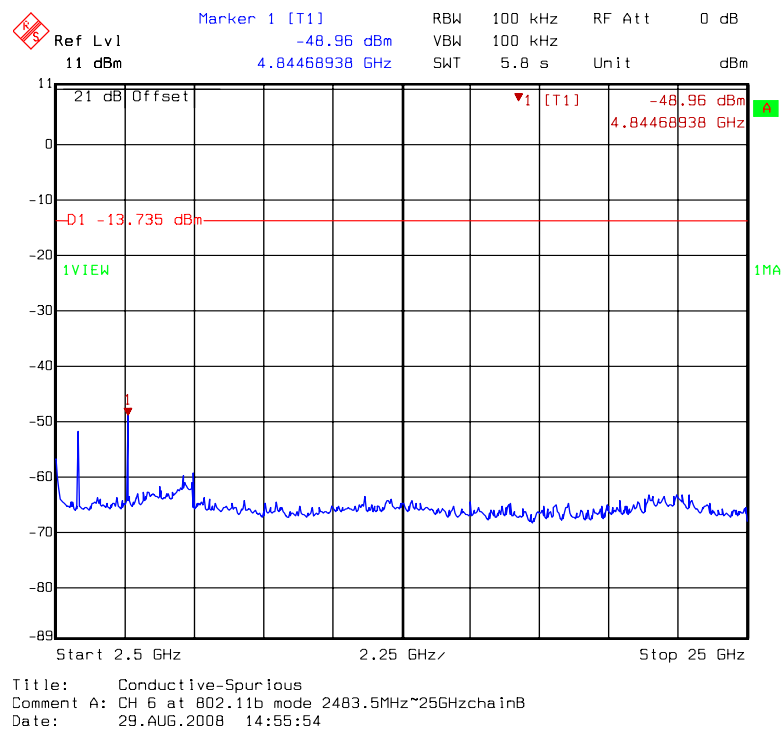
Chain B: conducted spurious @ 802.11b mode channel 6 (1 of 3)



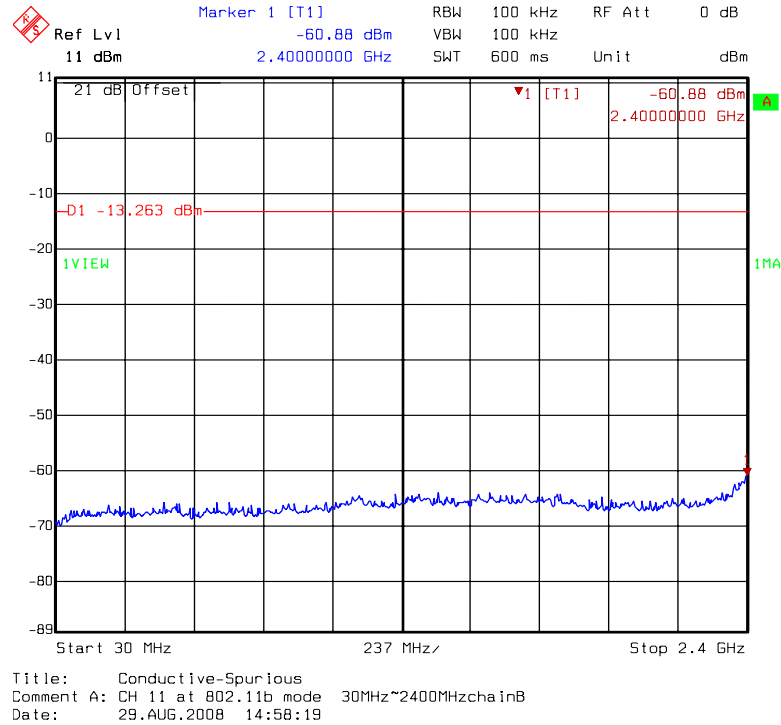
Chain B: conducted spurious @ 802.11b mode channel 6 (2 of 3)



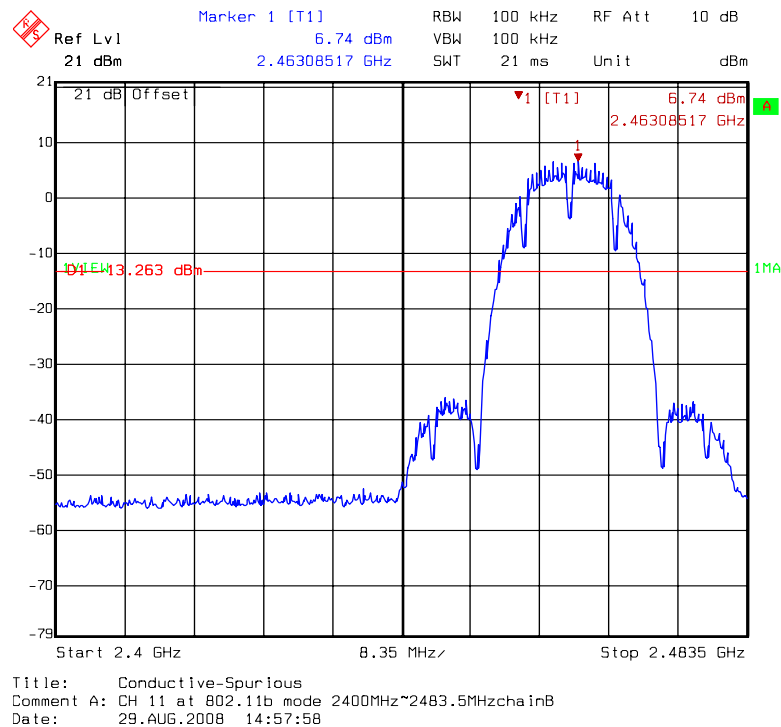
Chain B: conducted spurious @ 802.11b mode channel 6 (3 of 3)



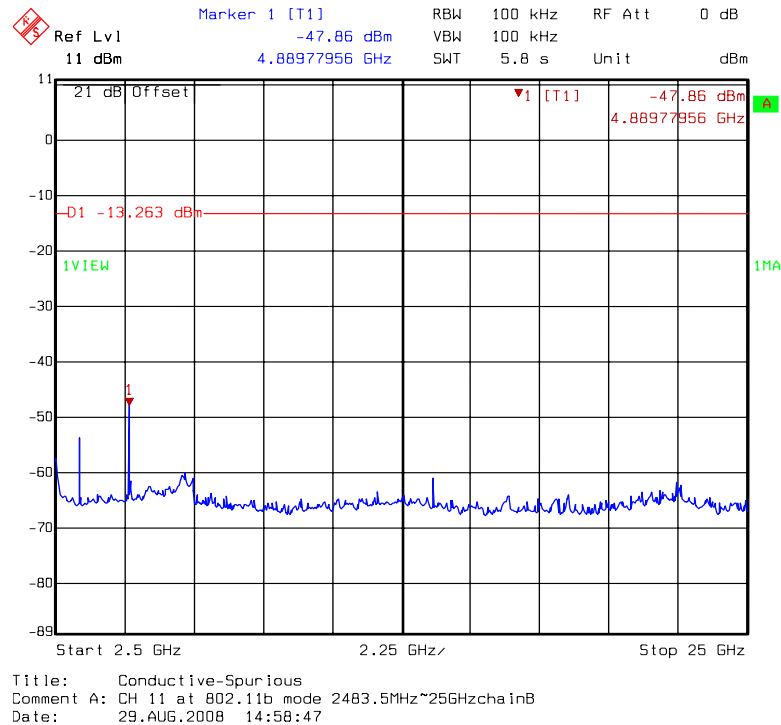
Chain B: conducted spurious @ 802.11b mode channel 11 (1 of 3)



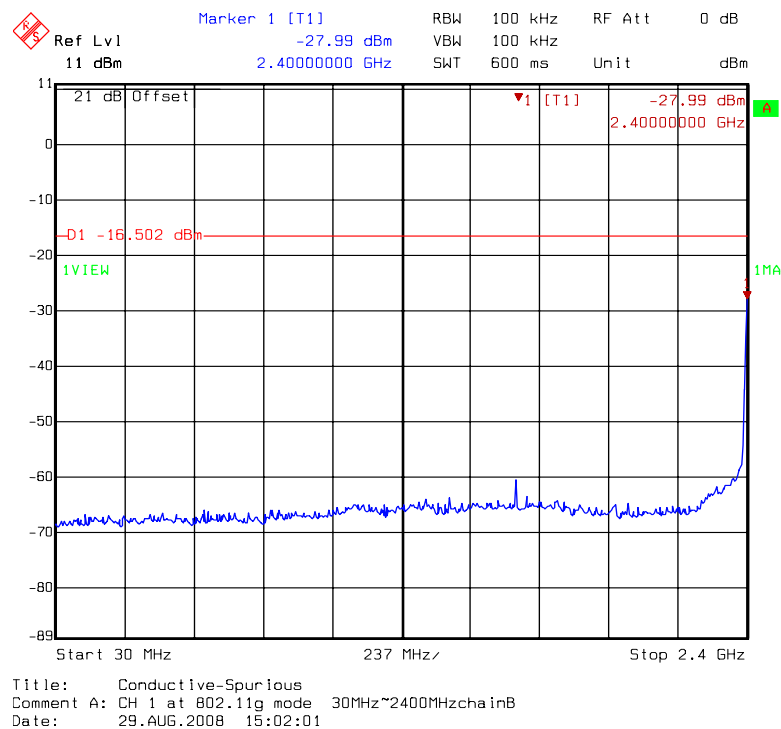
Chain B: conducted spurious @ 802.11b mode channel 11 (2 of 3)



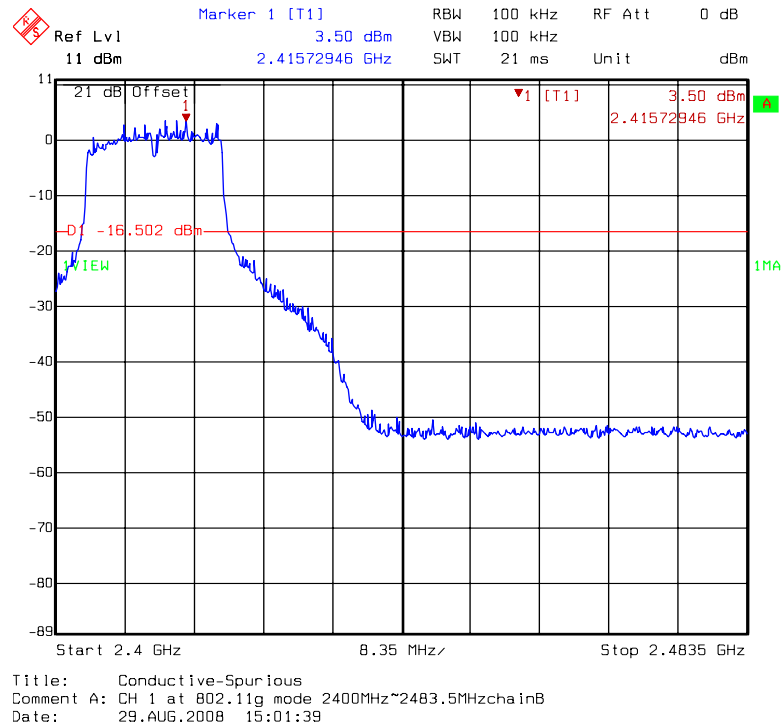
Chain B: conducted spurious @ 802.11b mode channel 11 (3 of 3)



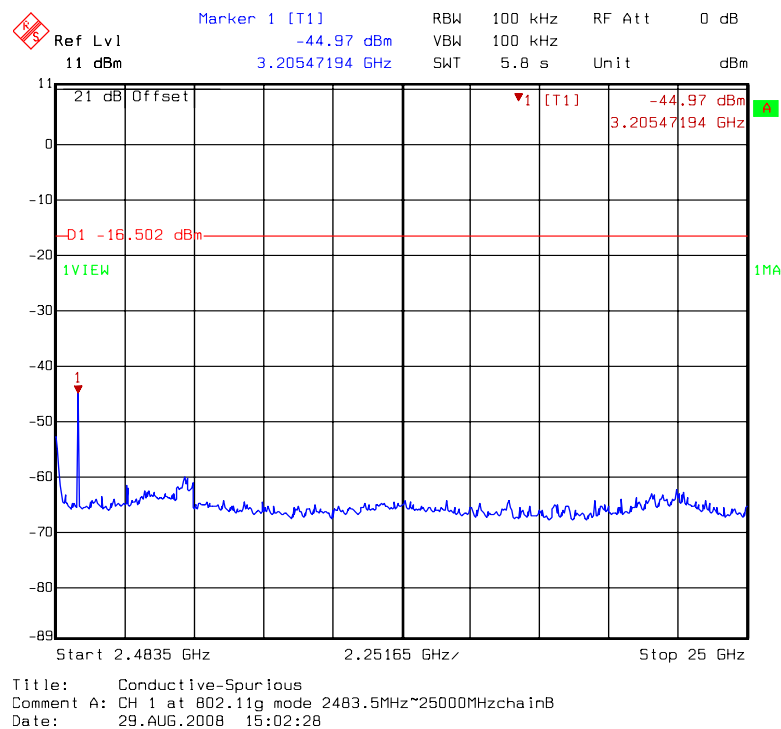
Chain B: conducted spurious @ 802.11g mode channel 1 (1 of 3)



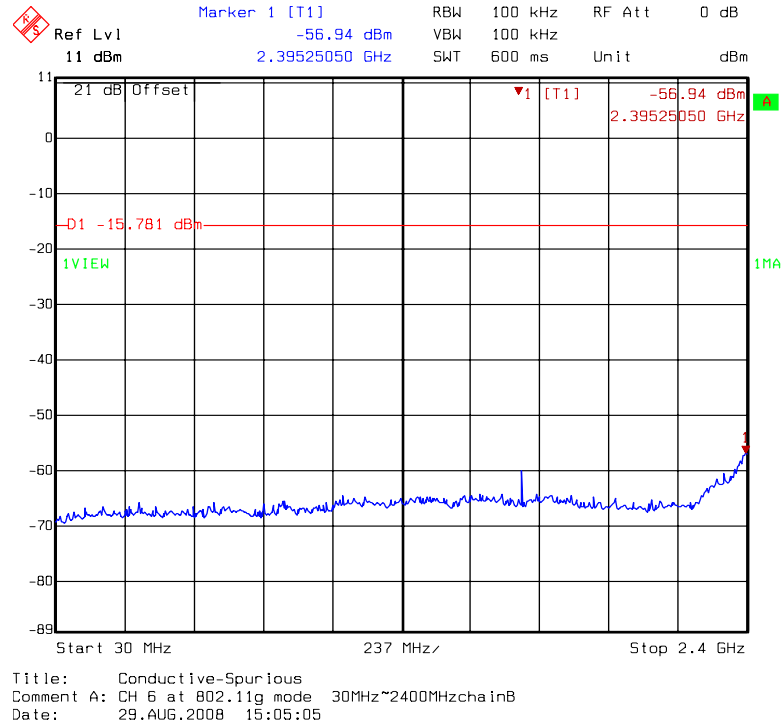
Chain B: conducted spurious @ 802.11g mode channel 1 (2 of 3)



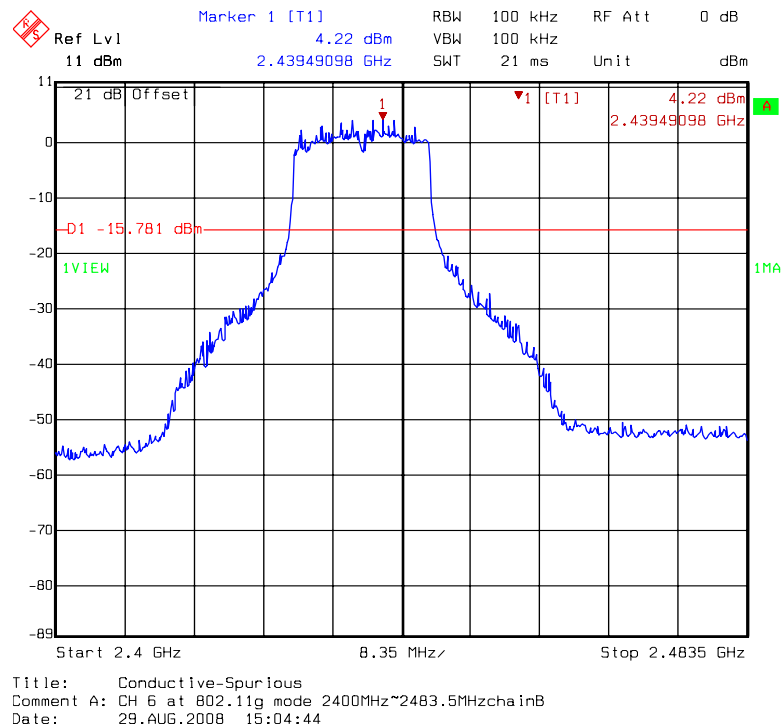
Chain B: conducted spurious @ 802.11g mode channel 1 (3 of 3)



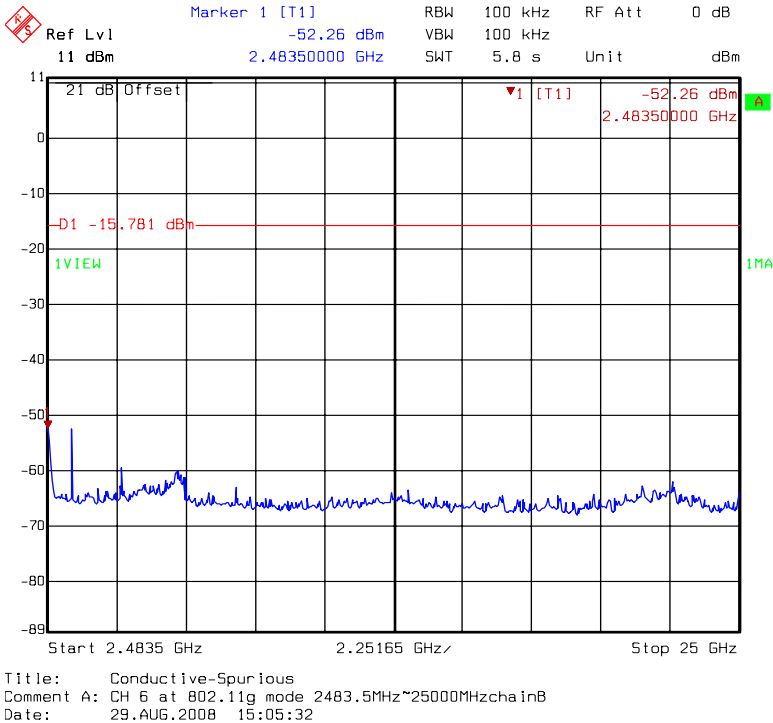
Chain B: conducted spurious @ 802.11g mode channel 6 (1 of 3)



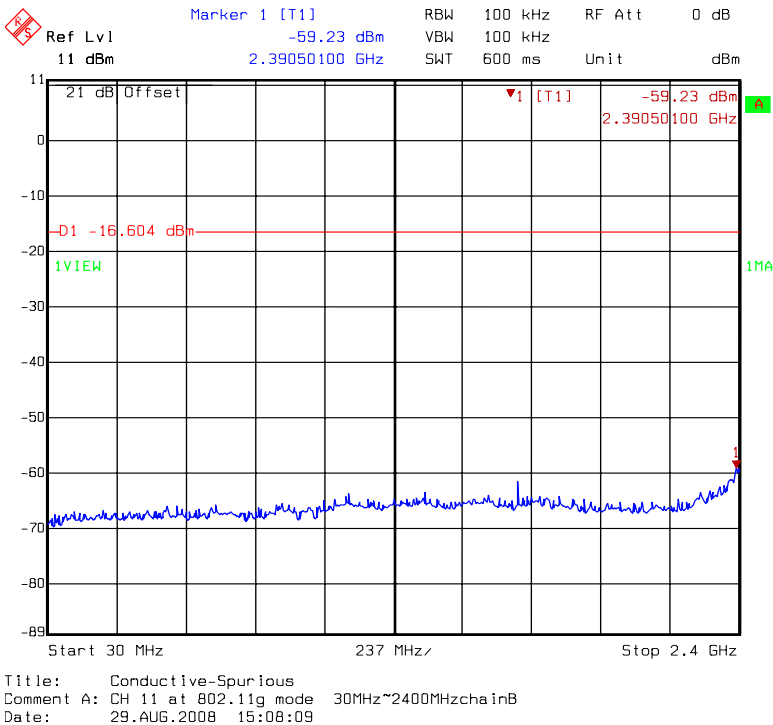
Chain B: conducted spurious @ 802.11g mode channel 6 (2 of 3)



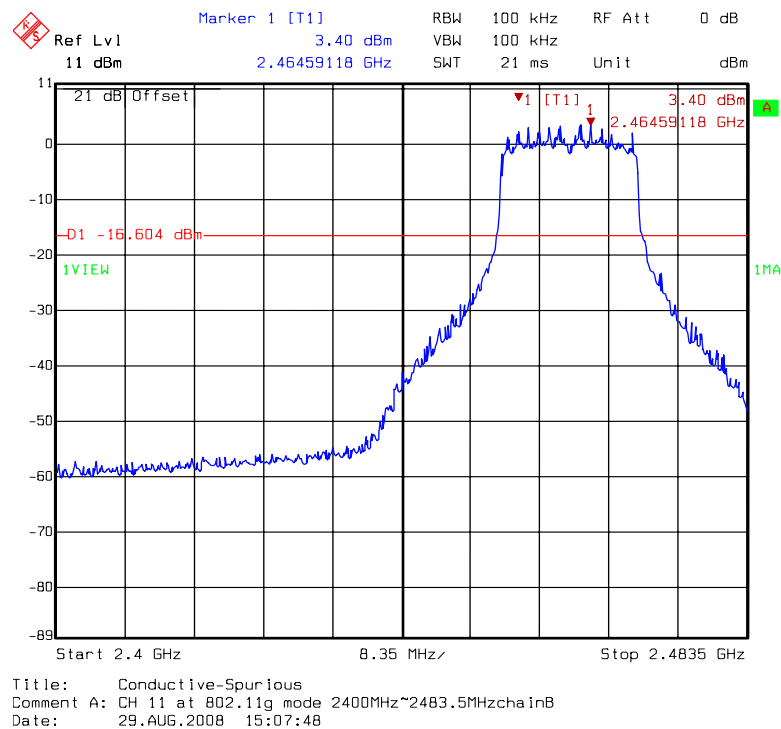
Chain B: conducted spurious @ 802.11g mode channel 6 (3 of 3)



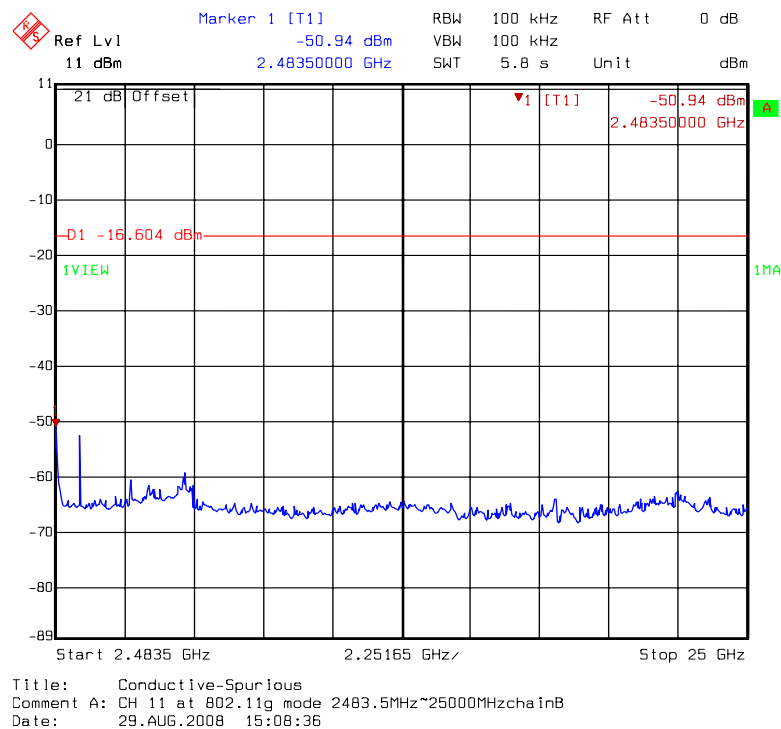
Chain B: conducted spurious @ 802.11g mode channel 11 (1 of 3)



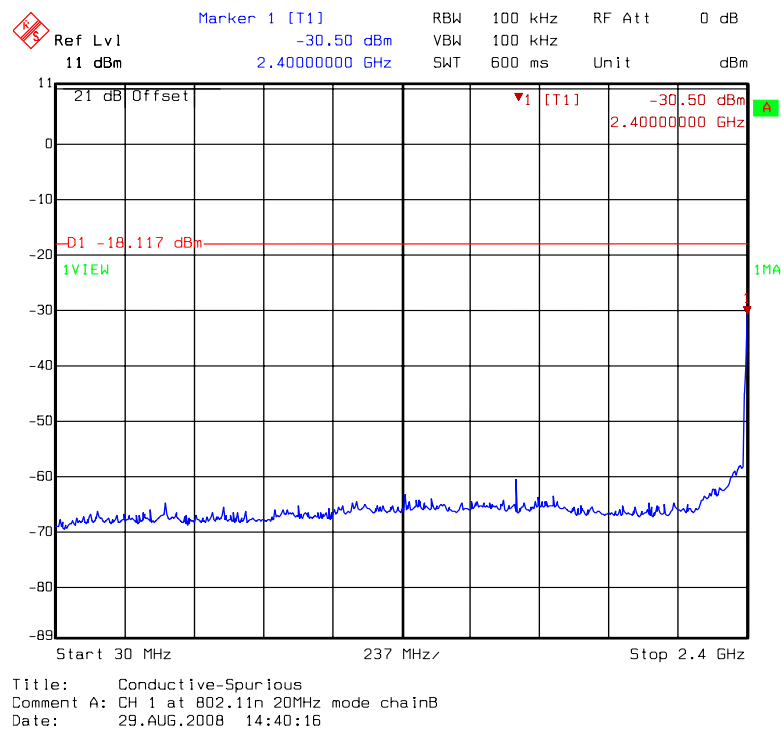
Chain B: conducted spurious @ 802.11g mode channel 11 (2 of 3)



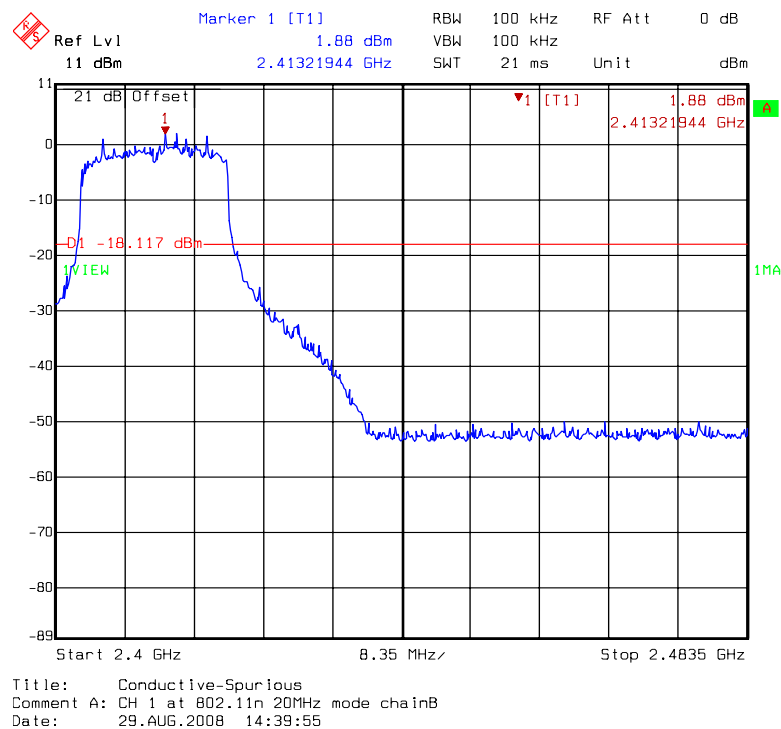
Chain B: conducted spurious @ 802.11g mode channel 11 (3 of 3)



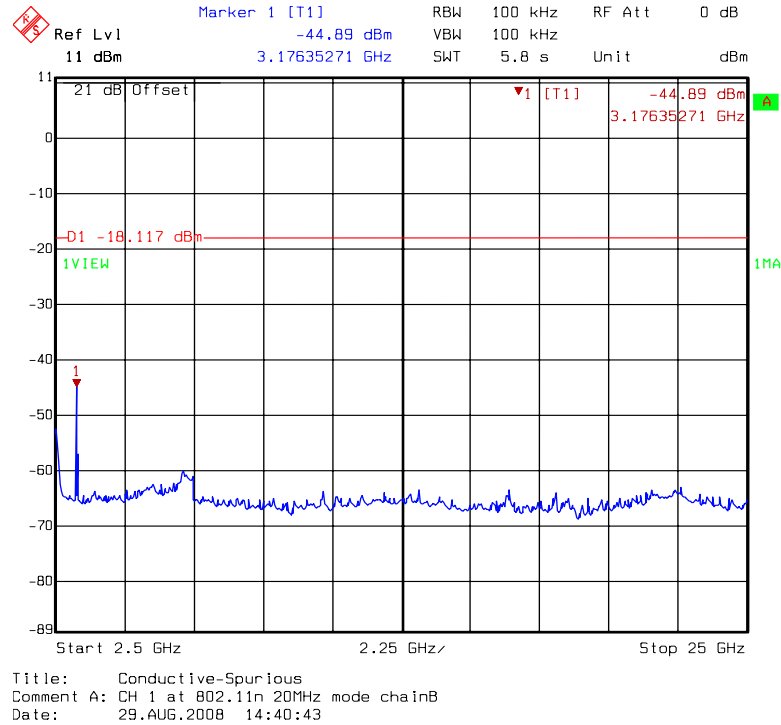
Chain B: conducted spurious @ 802.11n HT20 mode channel 1 (1 of 3)



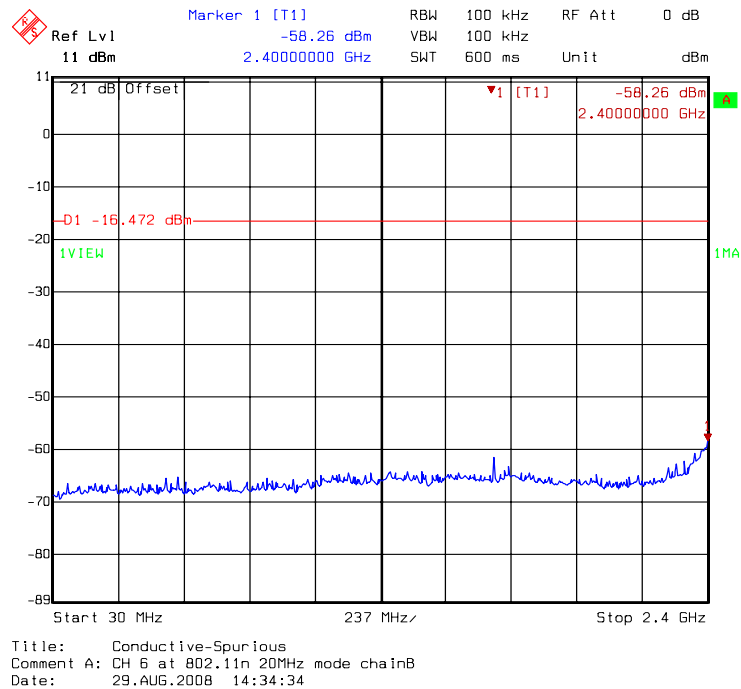
Chain B: conducted spurious @ 802.11n HT20 mode channel 1 (2 of 3)



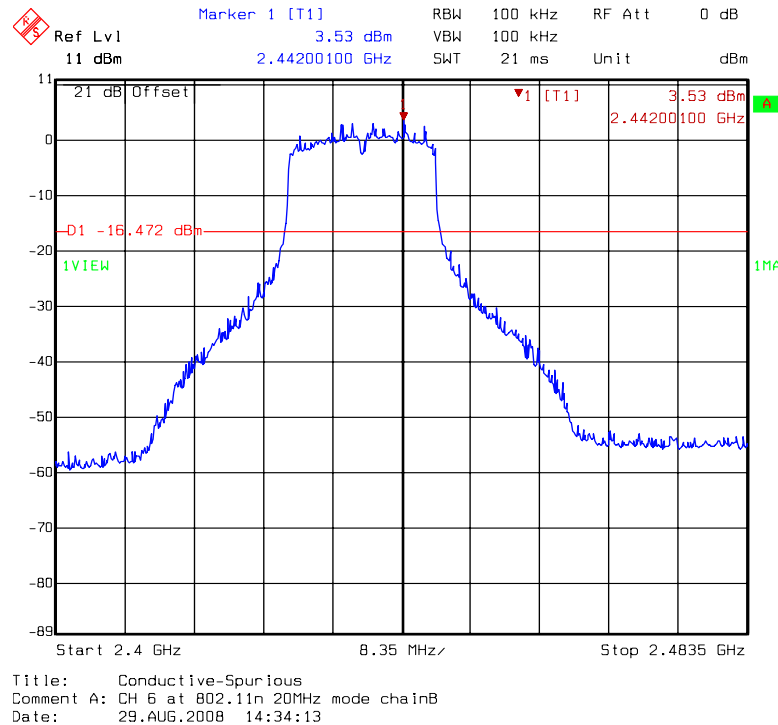
Chain B: conducted spurious @ 802.11n HT20 mode channel 1 (3 of 3)



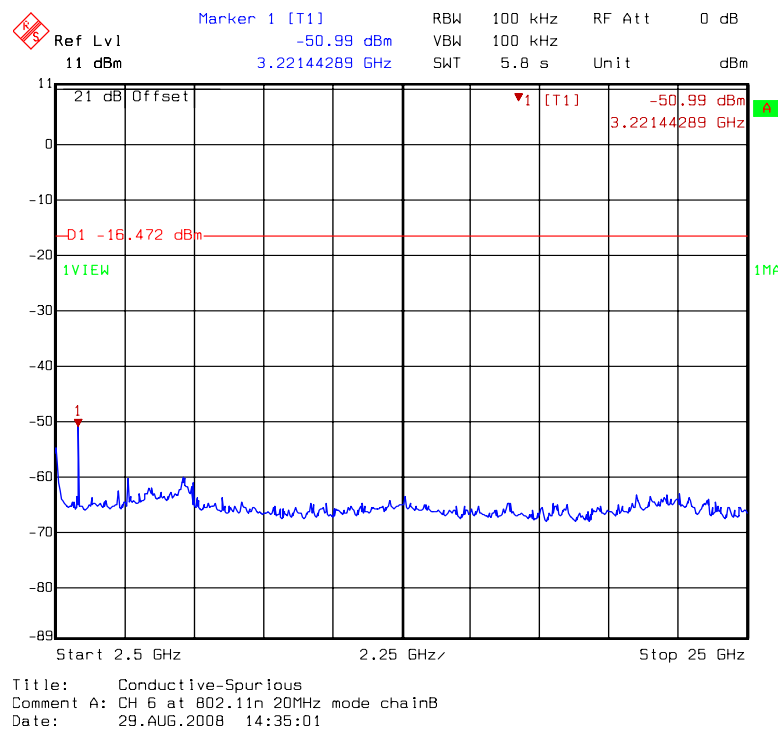
Chain B: conducted spurious @ 802.11n HT20 mode channel 6 (1 of 3)



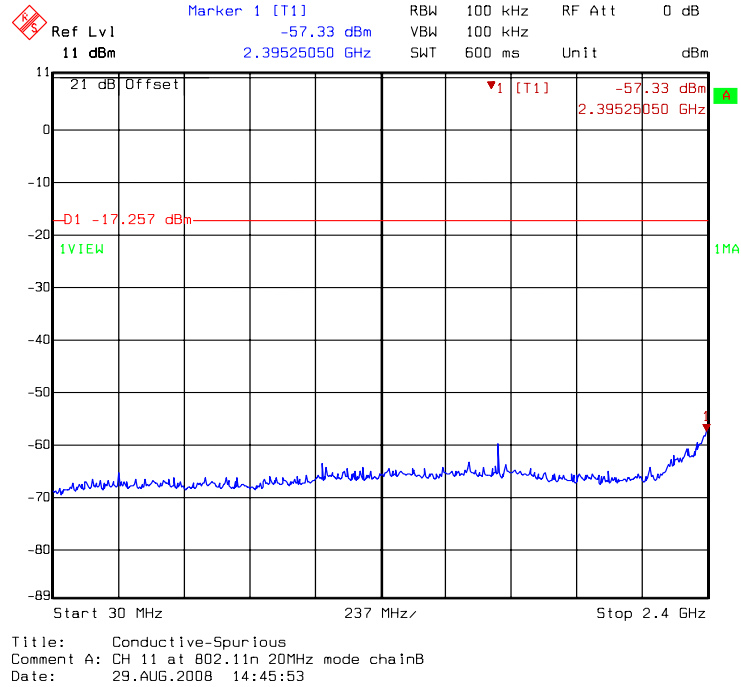
Chain B: conducted spurious @ 802.11n HT20 mode channel 6 (2 of 3)



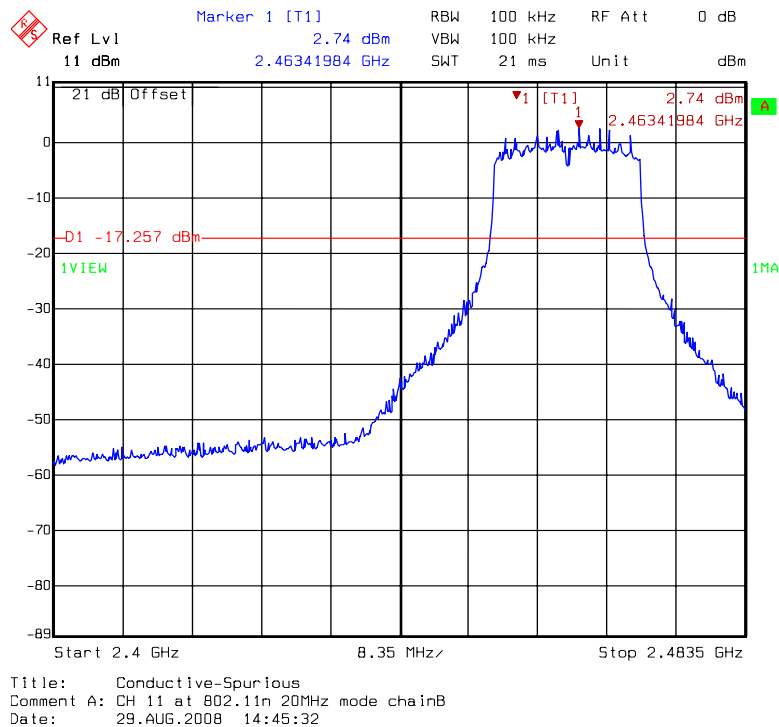
Chain B: conducted spurious @ 802.11n HT20 mode channel 6 (3 of 3)



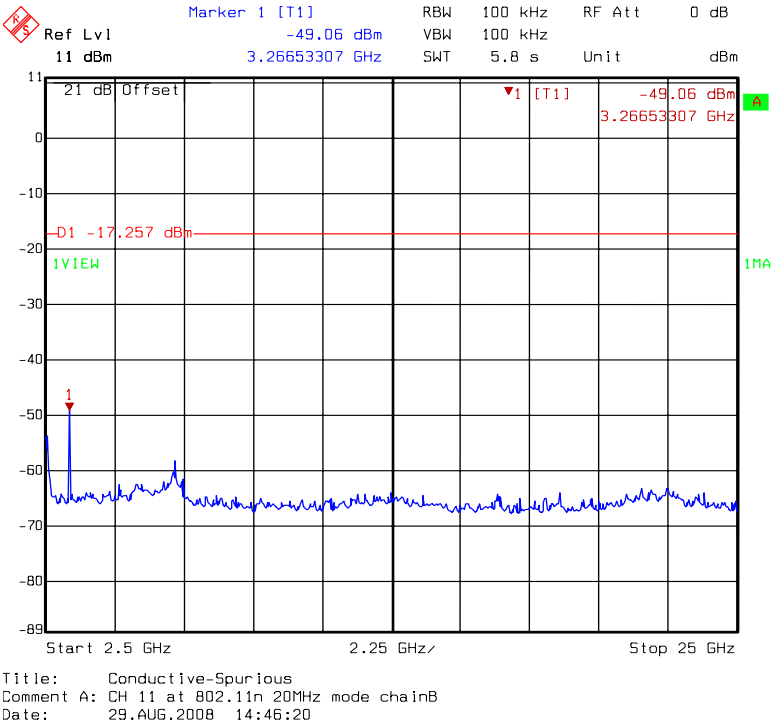
Chain B: conducted spurious @ 802.11n HT20 mode channel 11 (1 of 3)



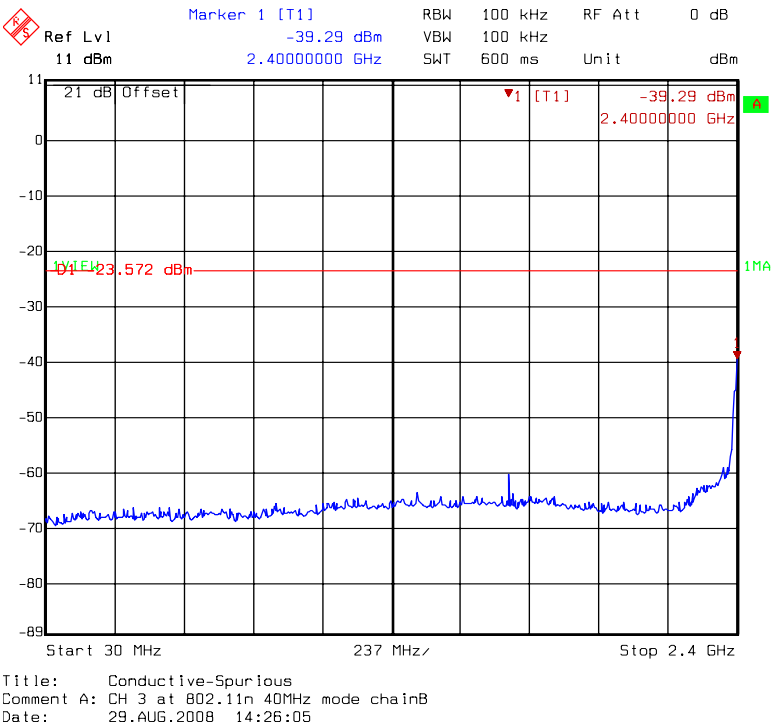
Chain B: conducted spurious @ 802.11n HT20 mode channel 11 (2 of 3)



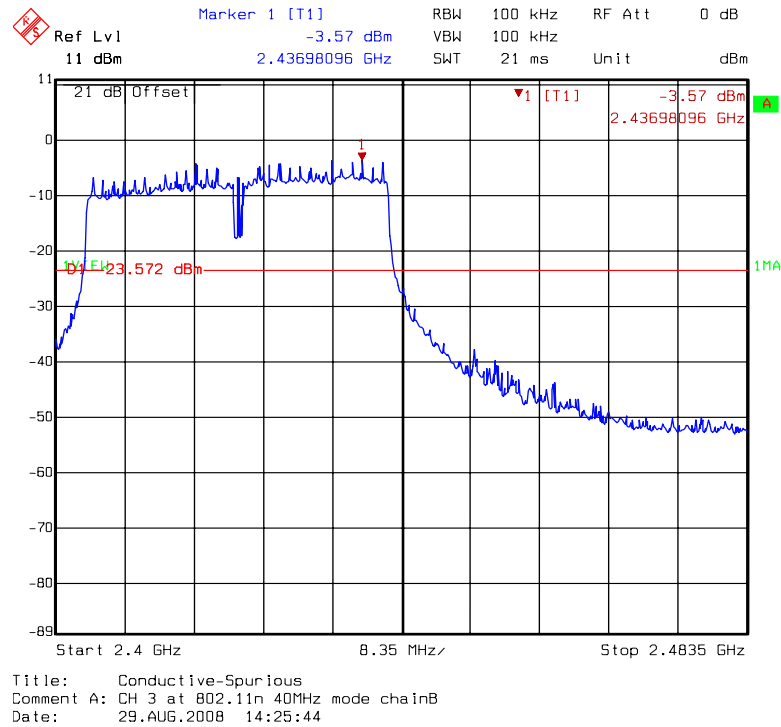
Chain B: conducted spurious @ 802.11n HT20 mode channel 11 (3 of 3)



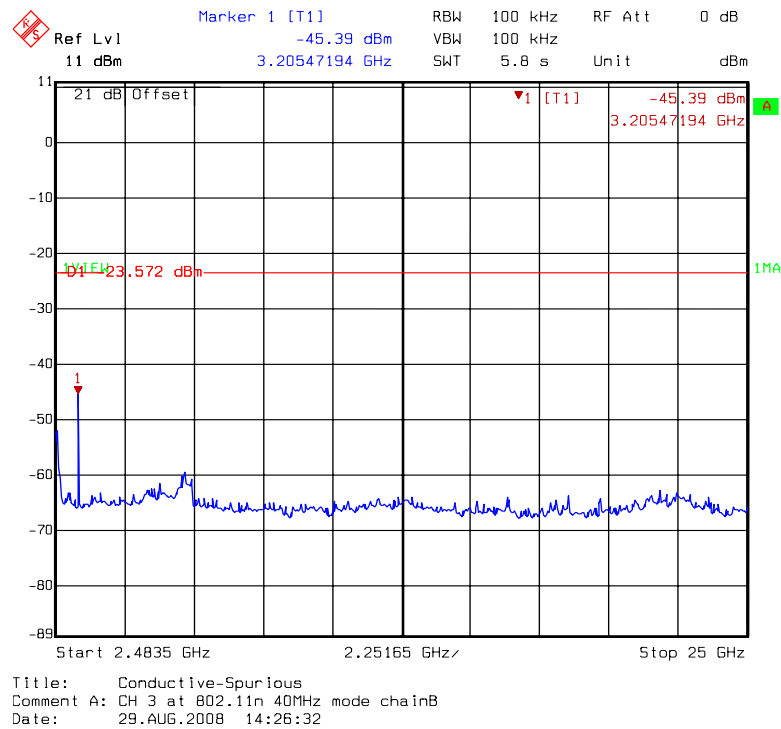
Chain B: conducted spurious @ 802.11n HT40 mode channel 3 (1 of 3)



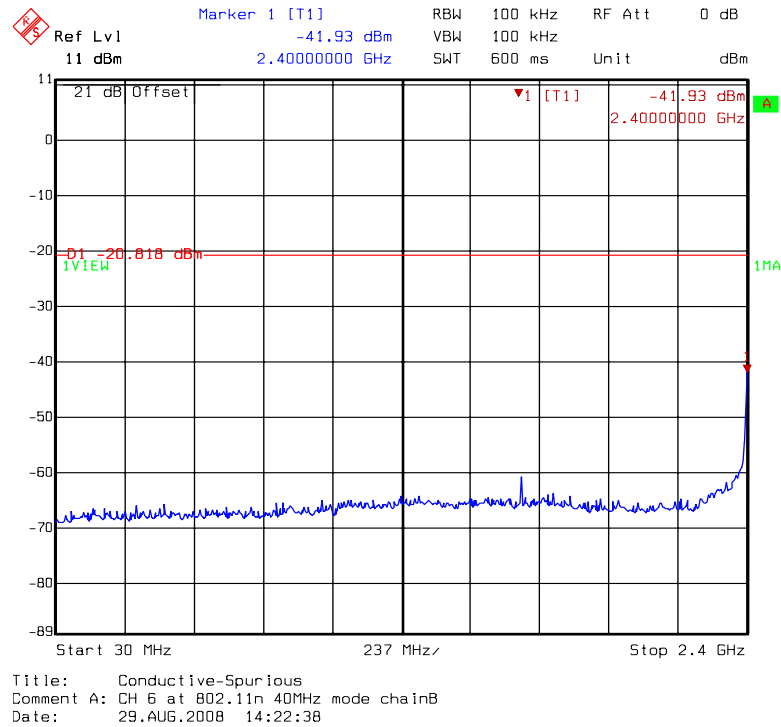
Chain B: conducted spurious @ 802.11n HT40 mode channel 3 (2 of 3)



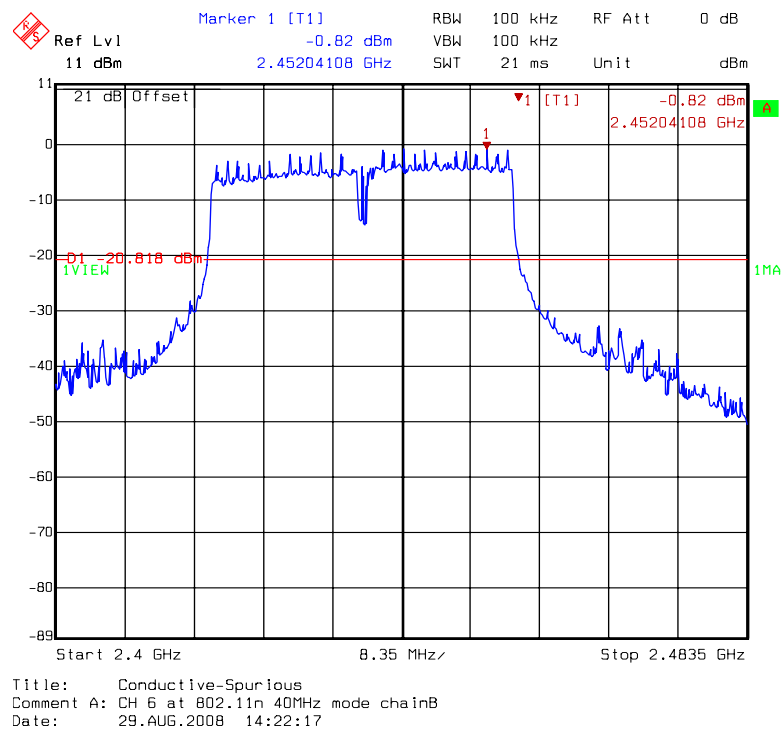
Chain B: conducted spurious @ 802.11n HT40 mode channel 3 (3 of 3)



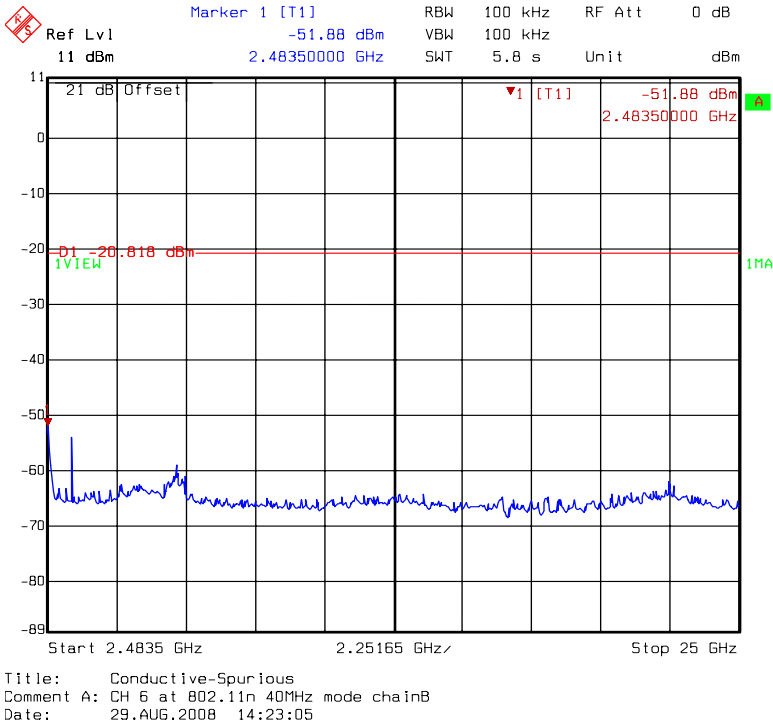
Chain B: conducted spurious @ 802.11n HT40 mode channel 6 (1 of 3)



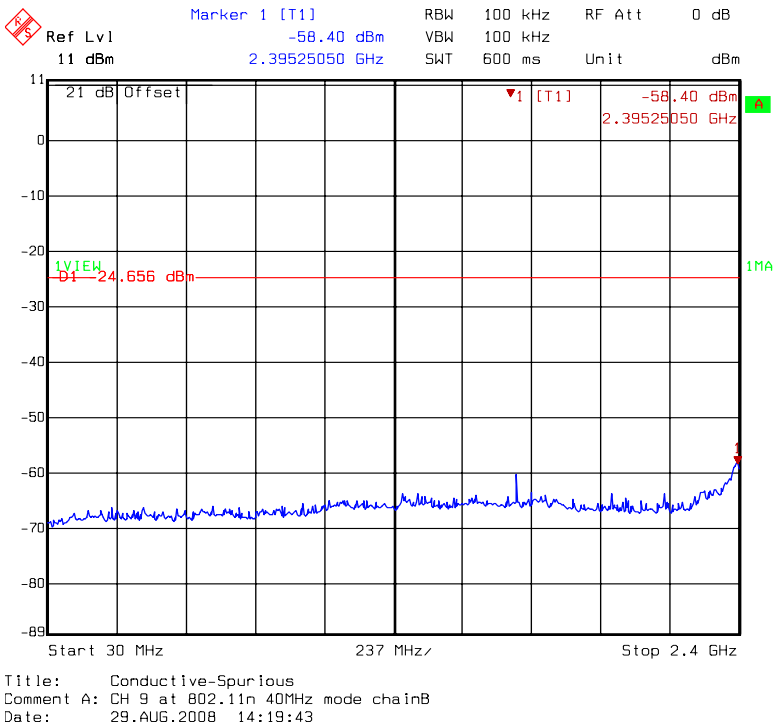
Chain B: conducted spurious @ 802.11n HT40 mode channel 6 (2 of 3)



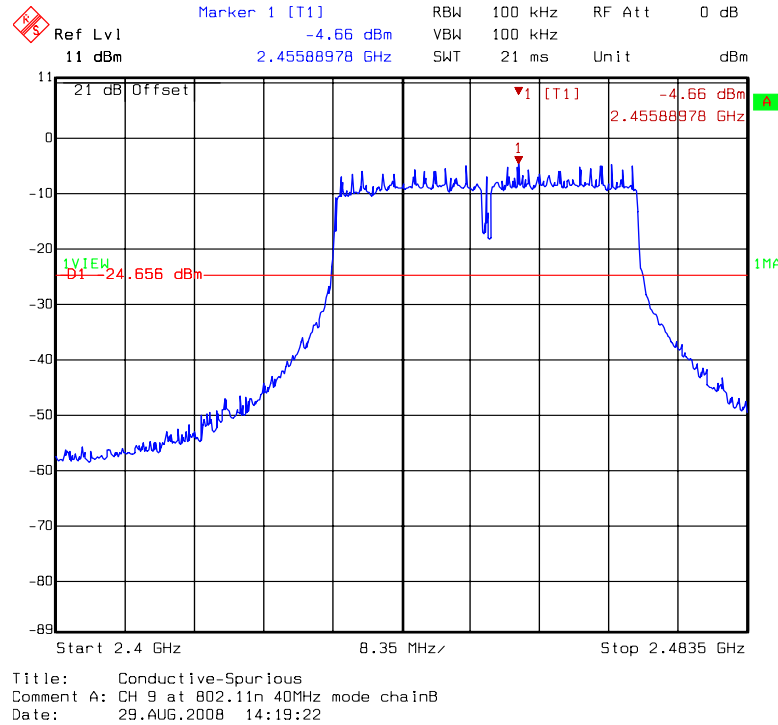
Chain B: conducted spurious @ 802.11n HT40 mode channel 6 (3 of 3)



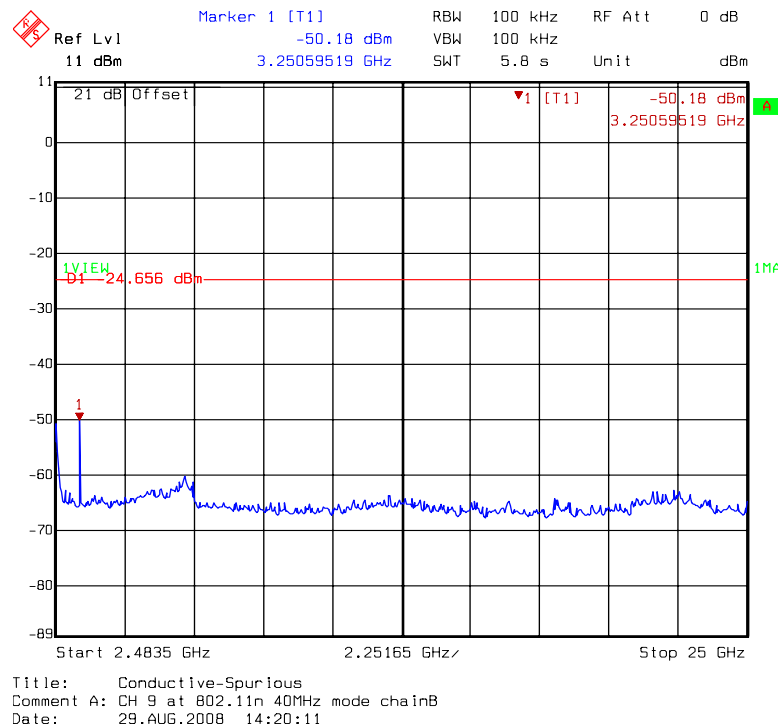
Chain B: conducted spurious @ 802.11n HT40 mode channel 9 (1 of 3)



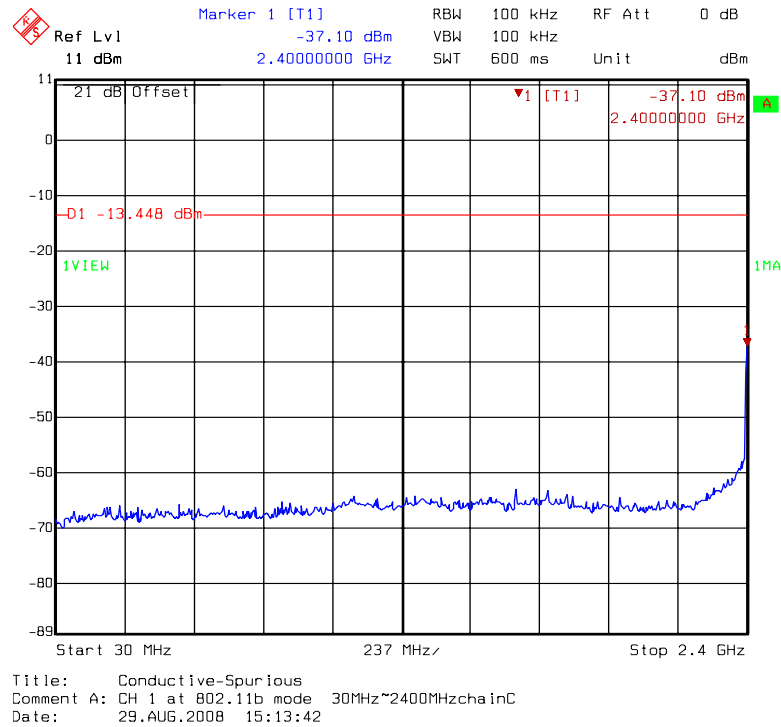
Chain B: conducted spurious @ 802.11n HT40 mode channel 9 (2 of 3)



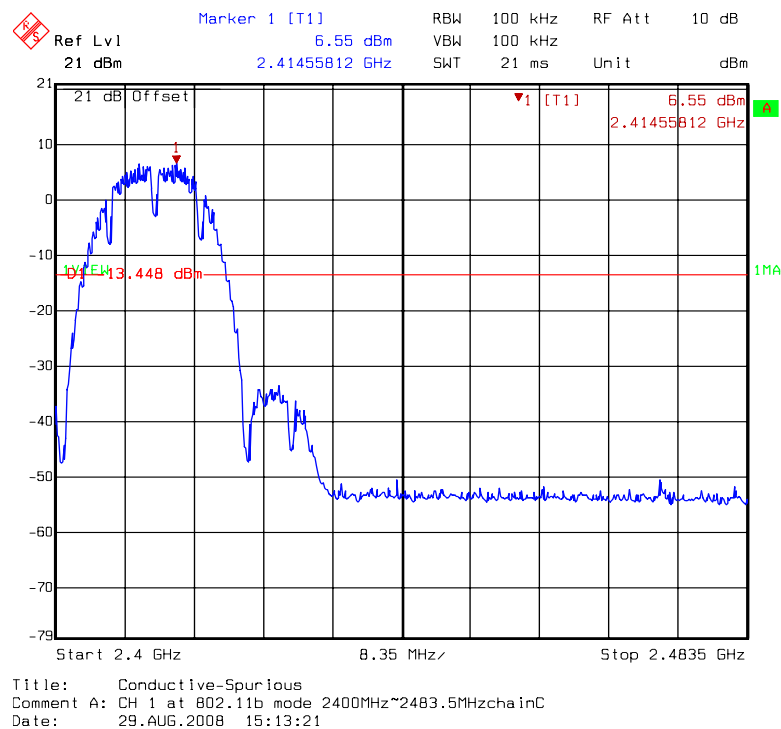
Chain B: conducted spurious @ 802.11n HT40 mode channel 9 (3 of 3)



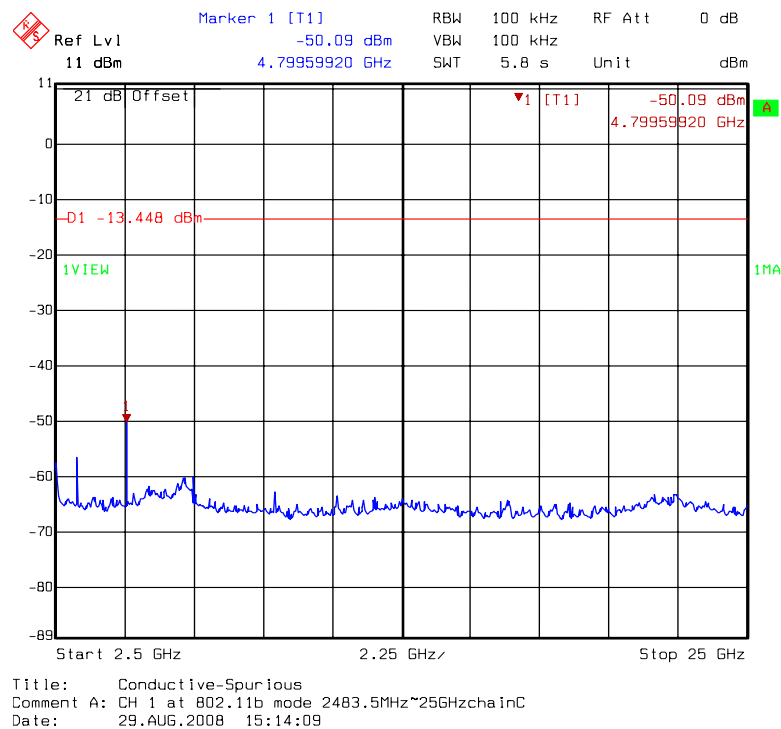
Chain C: conducted spurious @ 802.11b mode channel 1 (1 of 3)



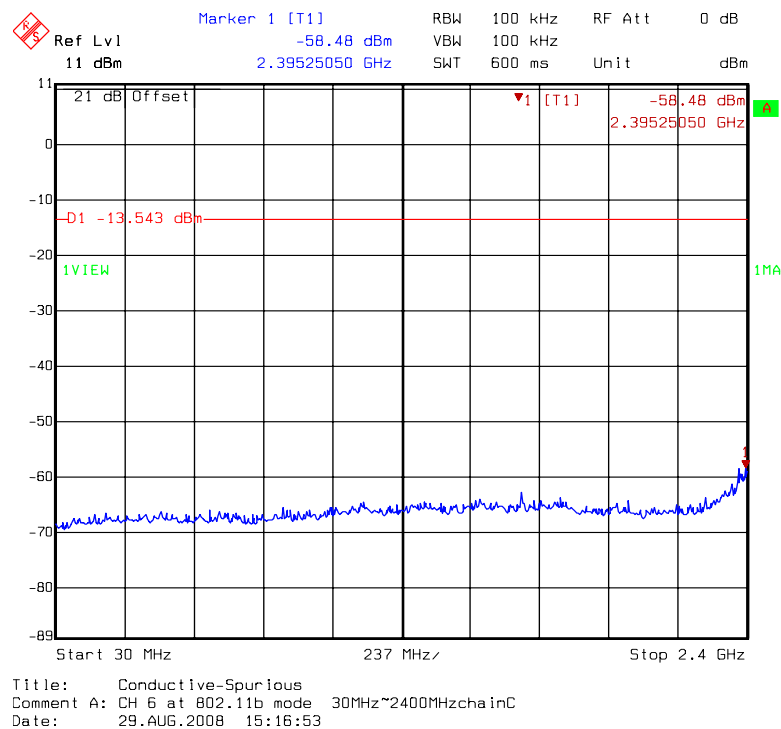
Chain C: conducted spurious @ 802.11b mode channel 1 (2 of 3)



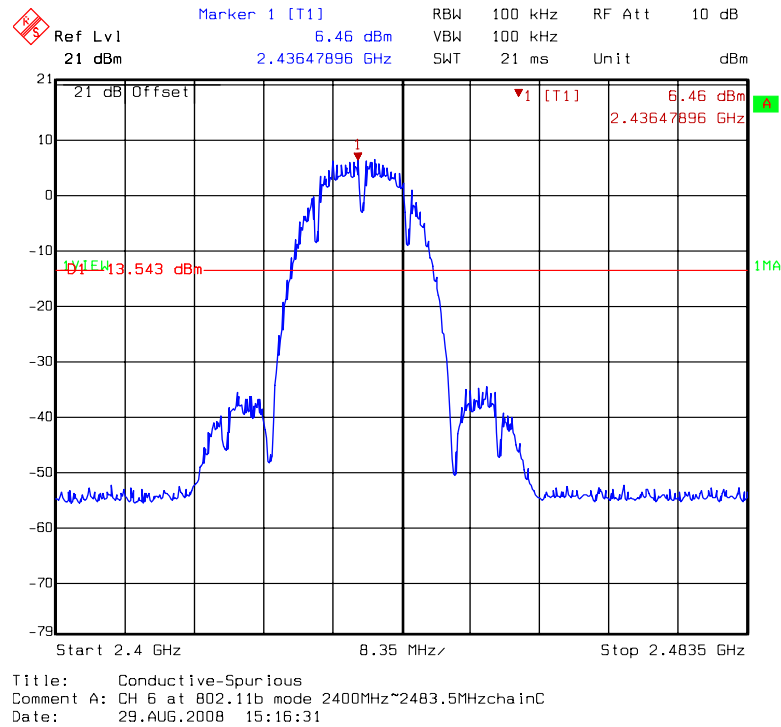
Chain C: conducted spurious @ 802.11b mode channel 1 (3 of 3)



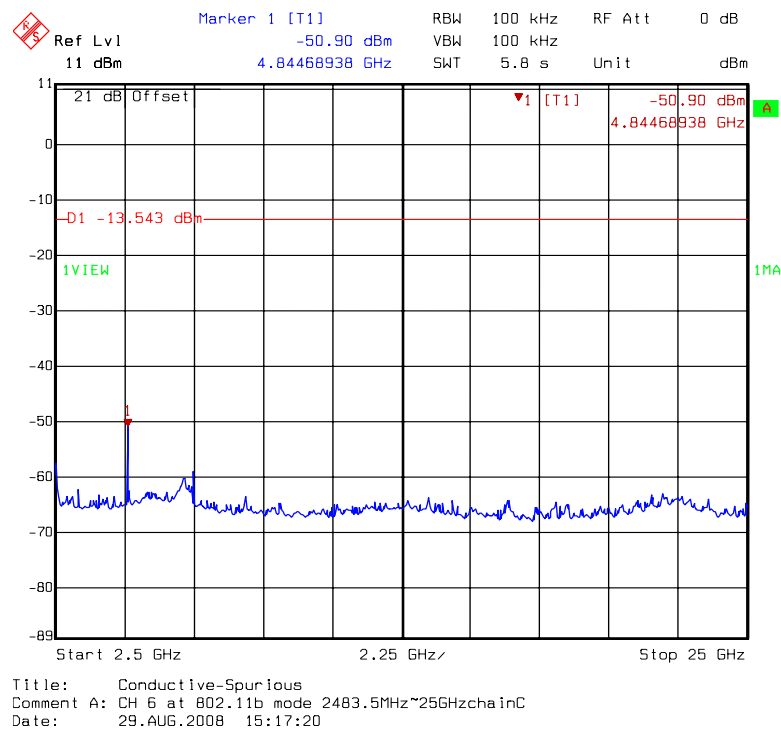
Chain C: conducted spurious @ 802.11b mode channel 6 (1 of 3)



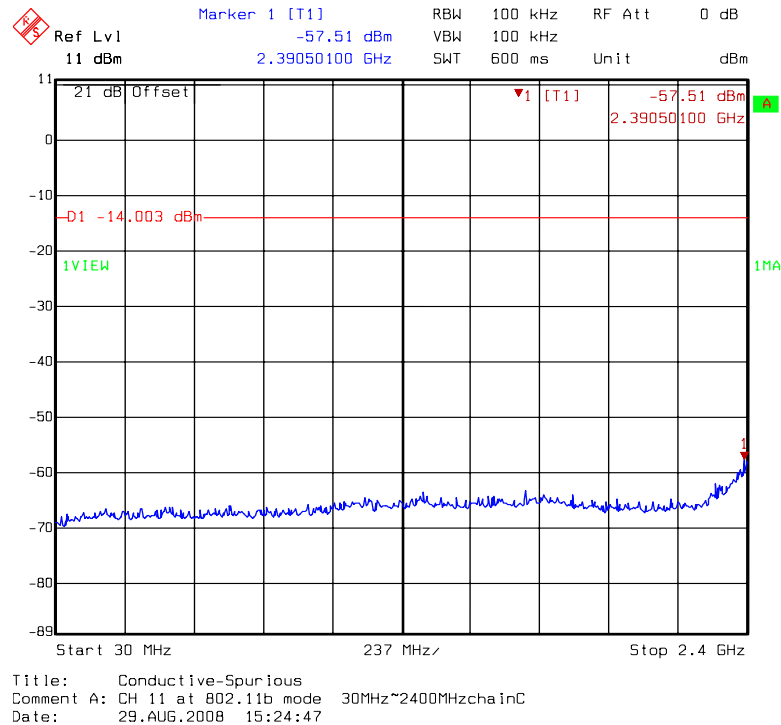
Chain C: conducted spurious @ 802.11b mode channel 6 (2 of 3)



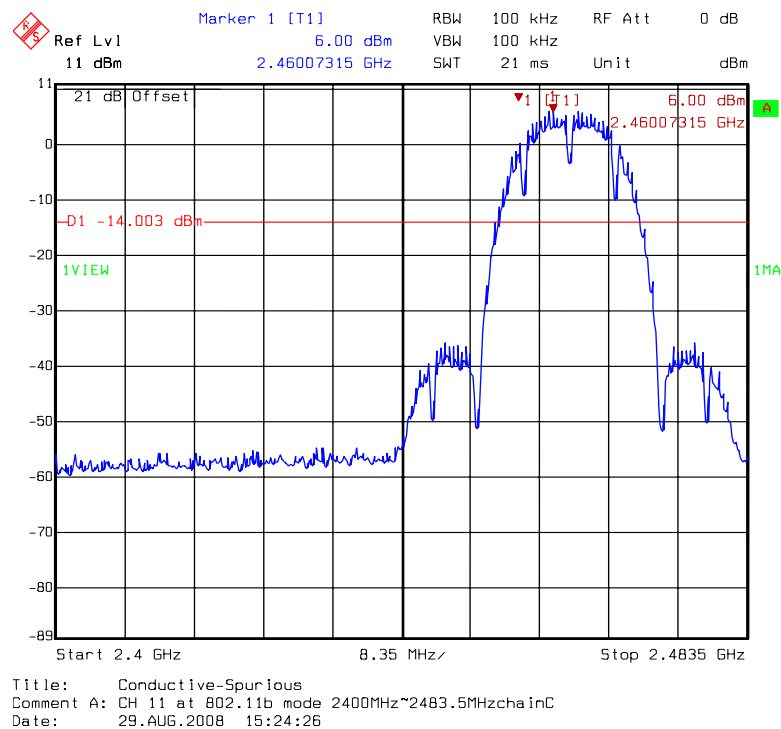
Chain C: conducted spurious @ 802.11b mode channel 6 (3 of 3)



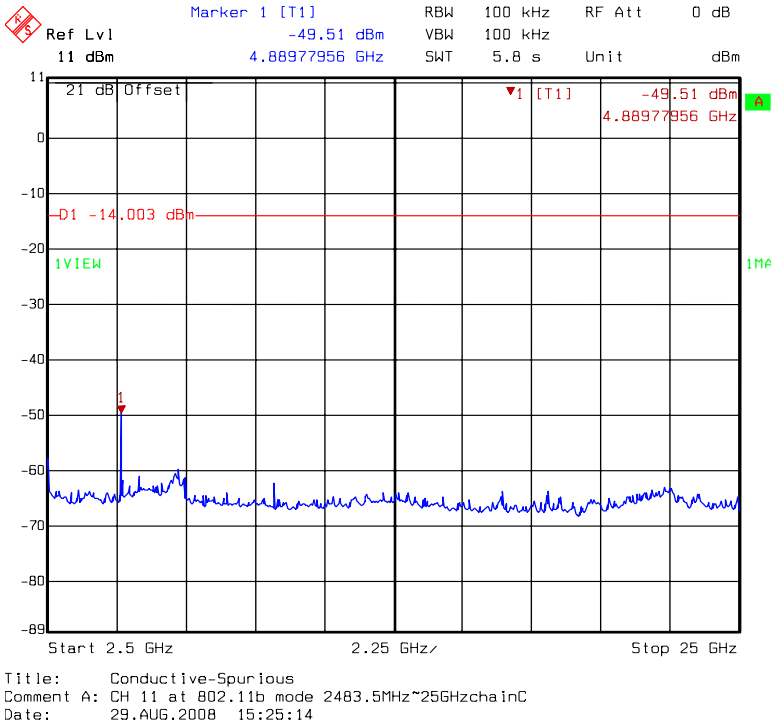
Chain C: conducted spurious @ 802.11b mode channel 11 (1 of 3)



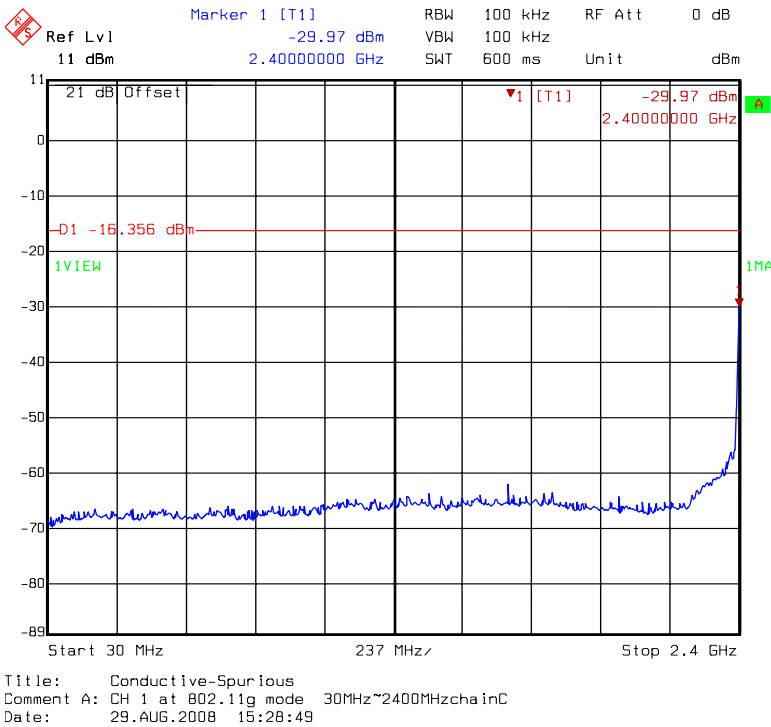
Chain C: conducted spurious @ 802.11b mode channel 11 (2 of 3)



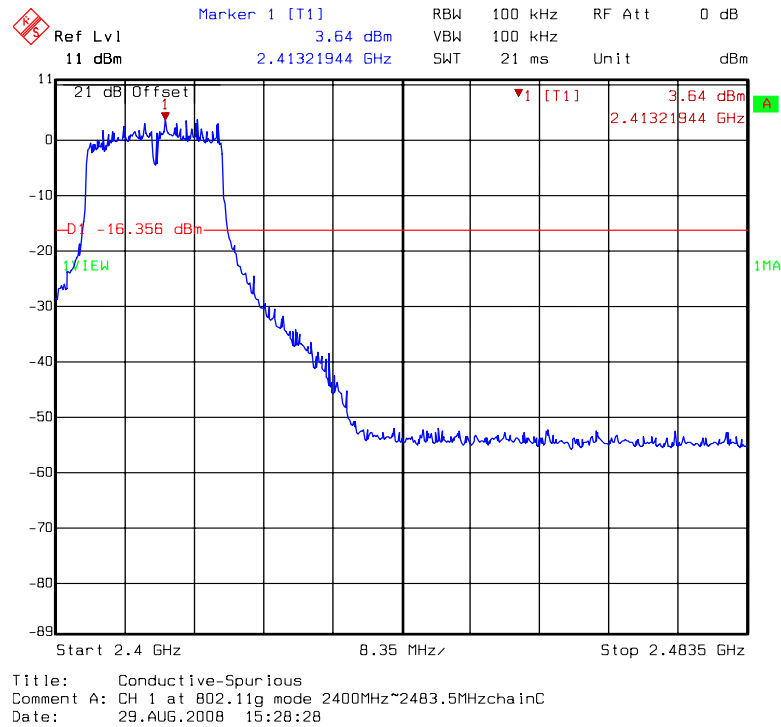
Chain C: conducted spurious @ 802.11b mode channel 11 (3 of 3)



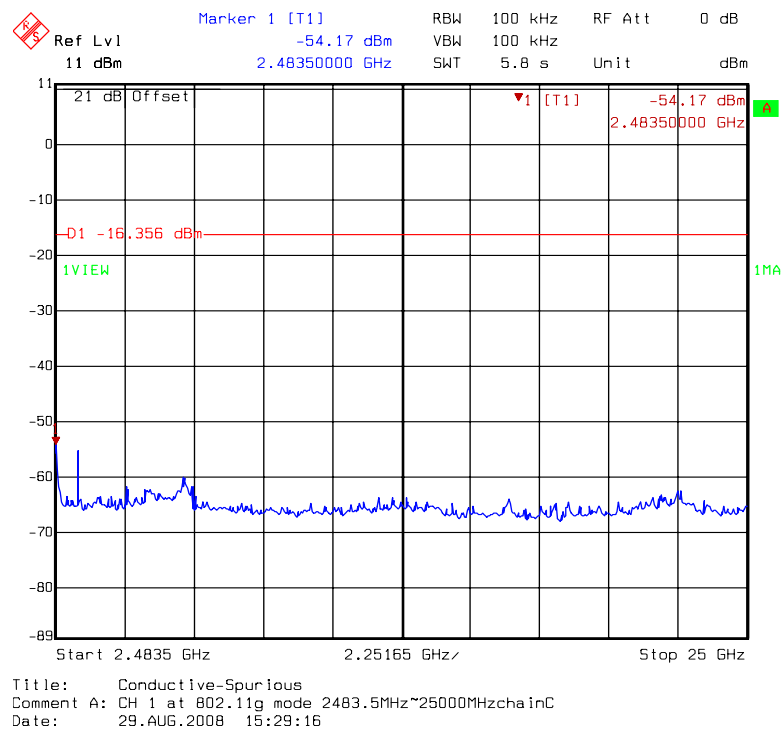
Chain C: conducted spurious @ 802.11g mode channel 1 (1 of 3)



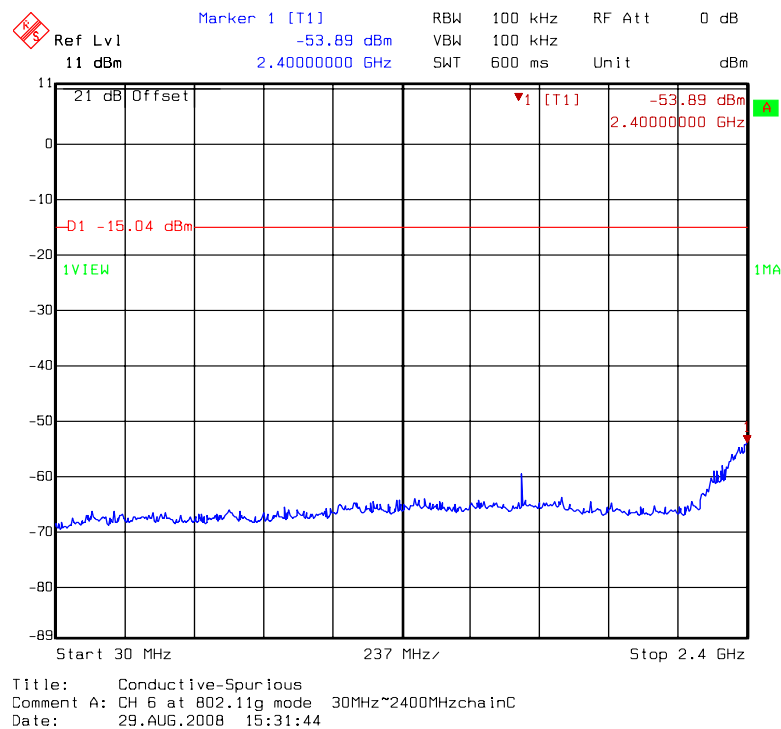
Chain C: conducted spurious @ 802.11g mode channel 1 (2 of 3)



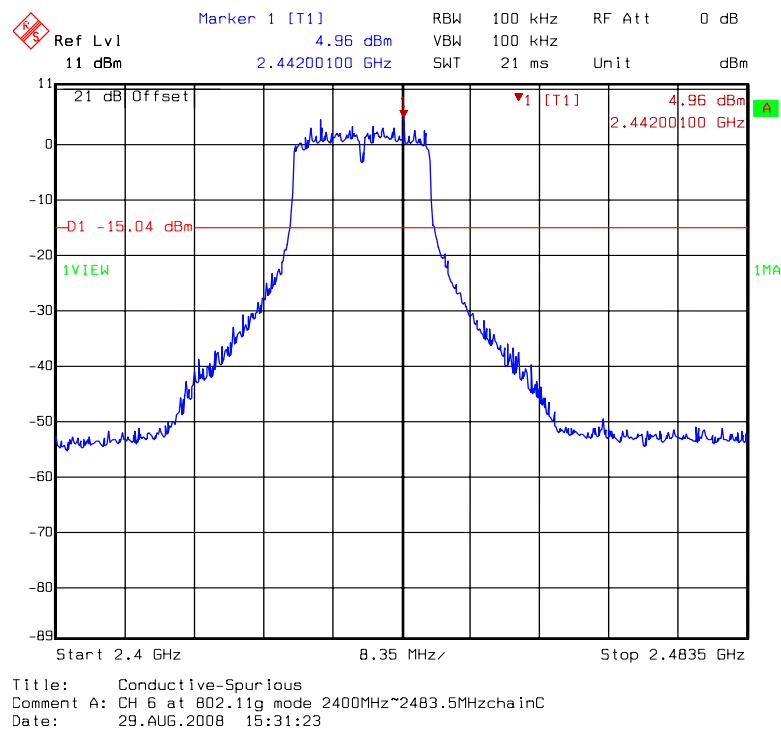
Chain C: conducted spurious @ 802.11g mode channel 1 (3 of 3)



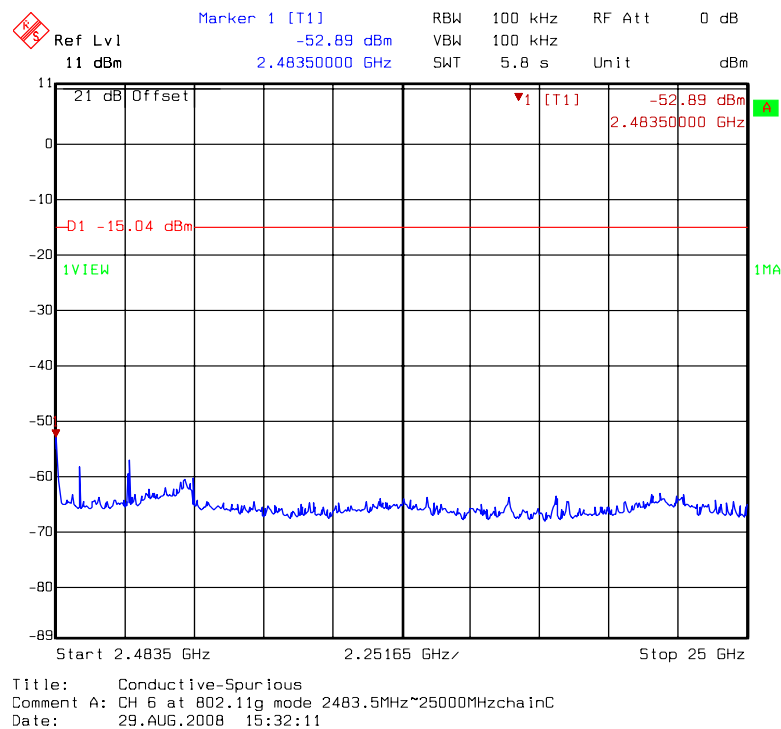
Chain C: conducted spurious @ 802.11g mode channel 6 (1 of 3)



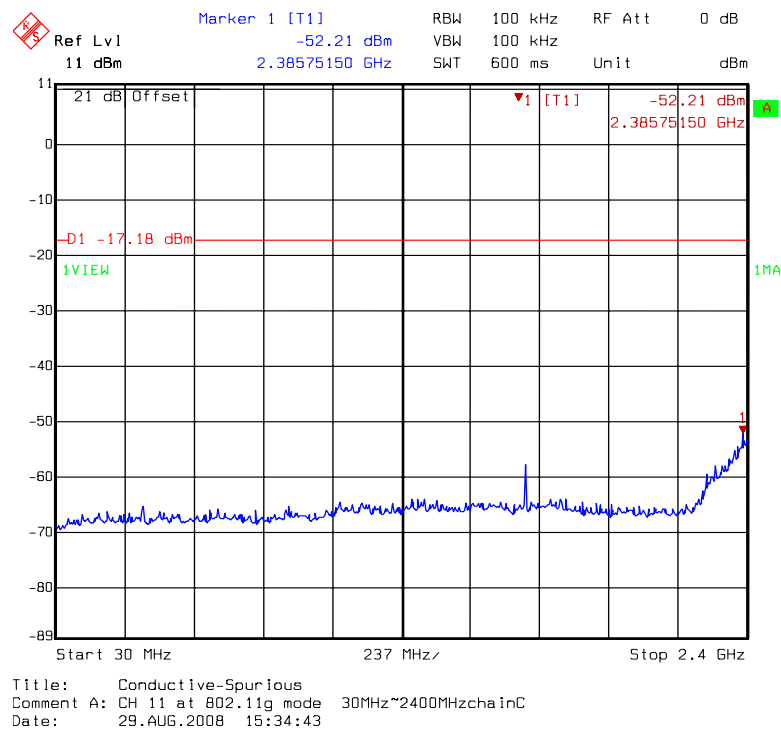
Chain C: conducted spurious @ 802.11g mode channel 6 (2 of 3)



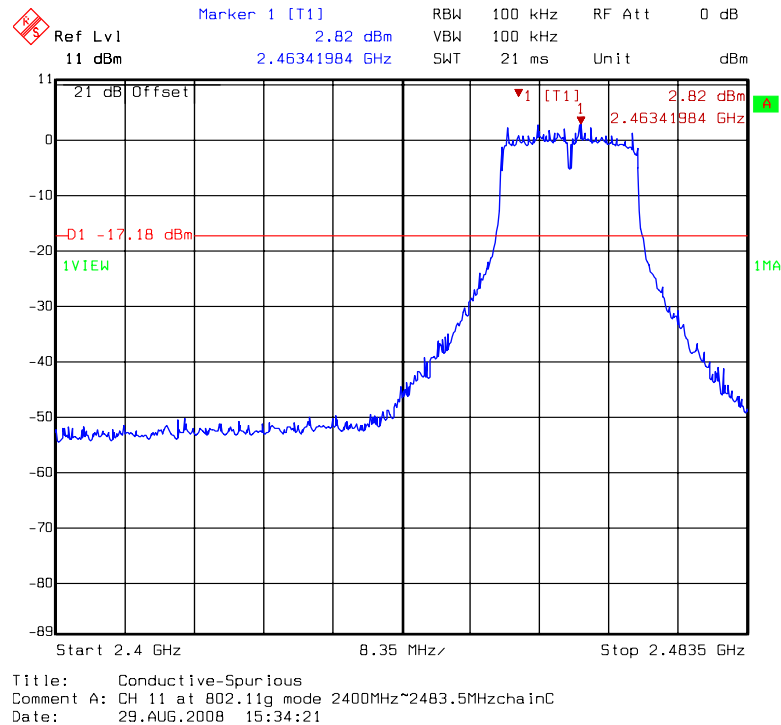
Chain C: conducted spurious @ 802.11g mode channel 6 (3 of 3)



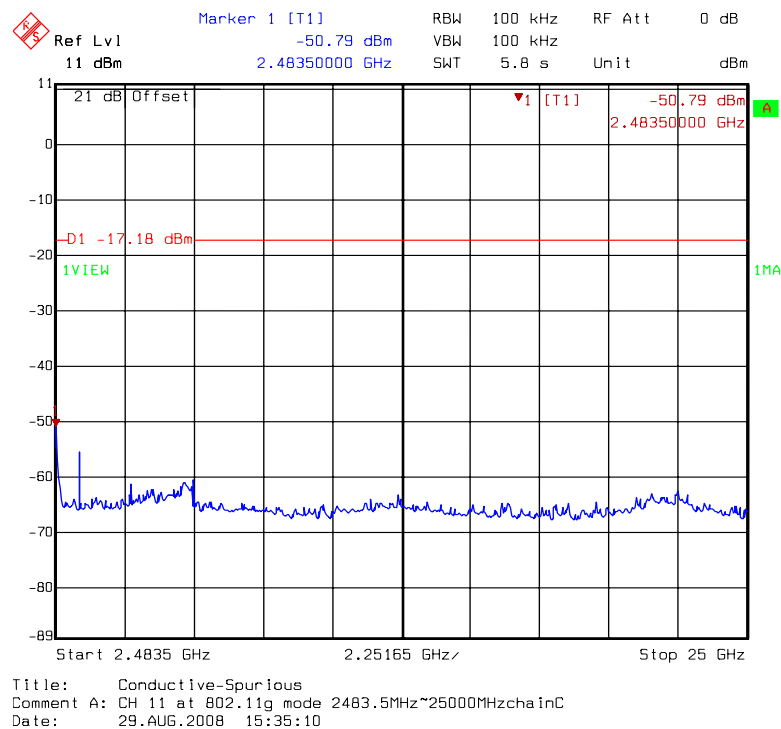
Chain C: conducted spurious @ 802.11g mode channel 11 (1 of 3)



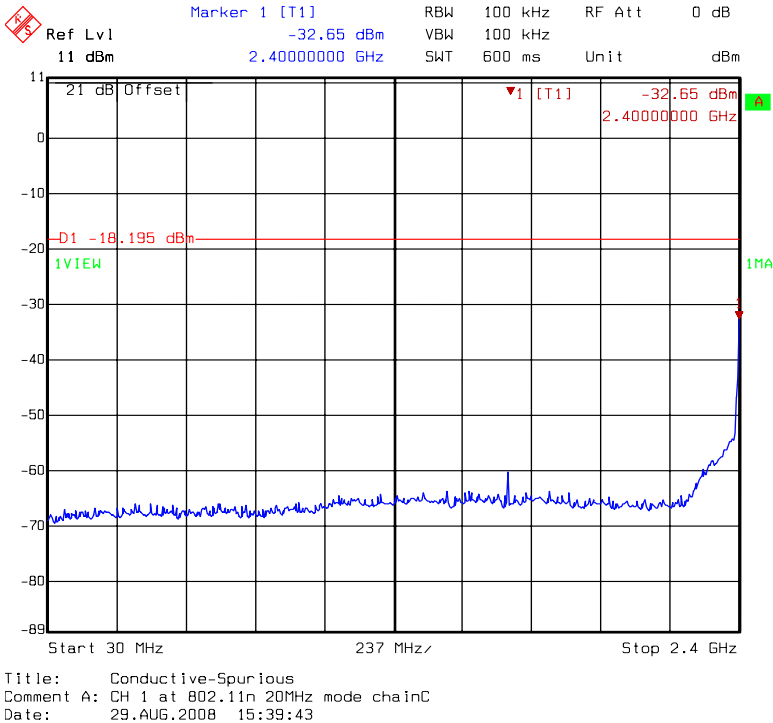
Chain C: conducted spurious @ 802.11g mode channel 11 (2 of 3)



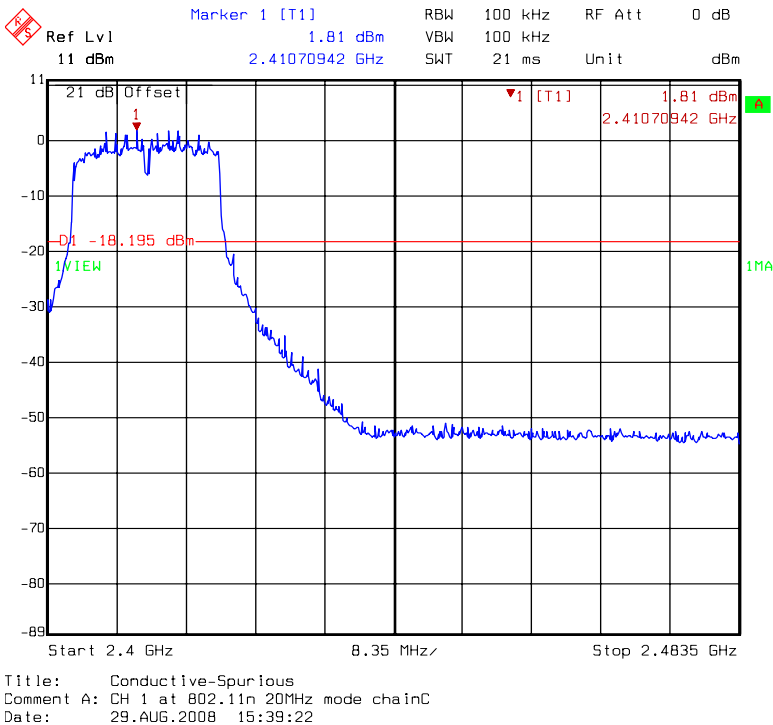
Chain C: conducted spurious @ 802.11g mode channel 11 (3 of 3)



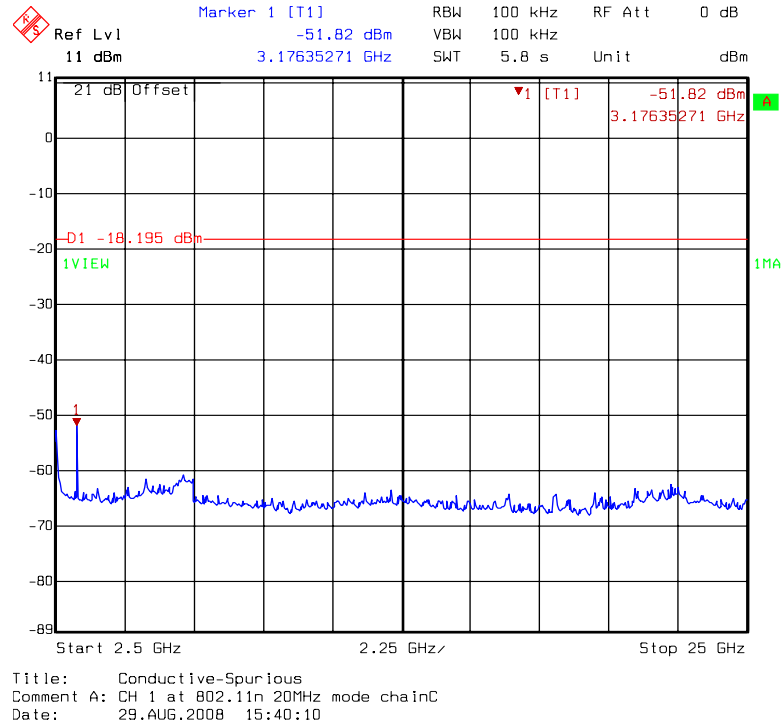
Chain C: conducted spurious @ 802.11n HT20 mode channel 1 (1 of 3)



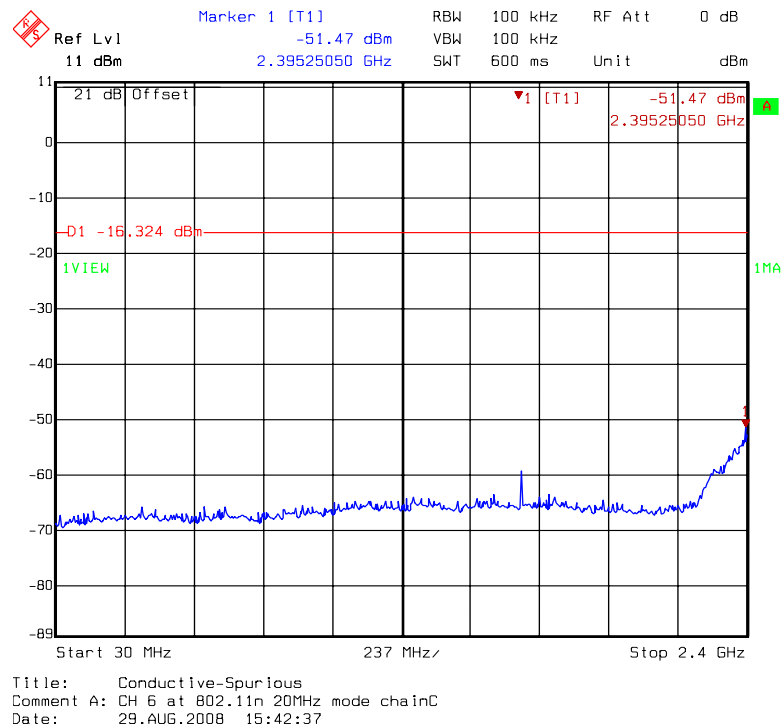
Chain C: conducted spurious @ 802.11n HT20 mode channel 1 (2 of 3)



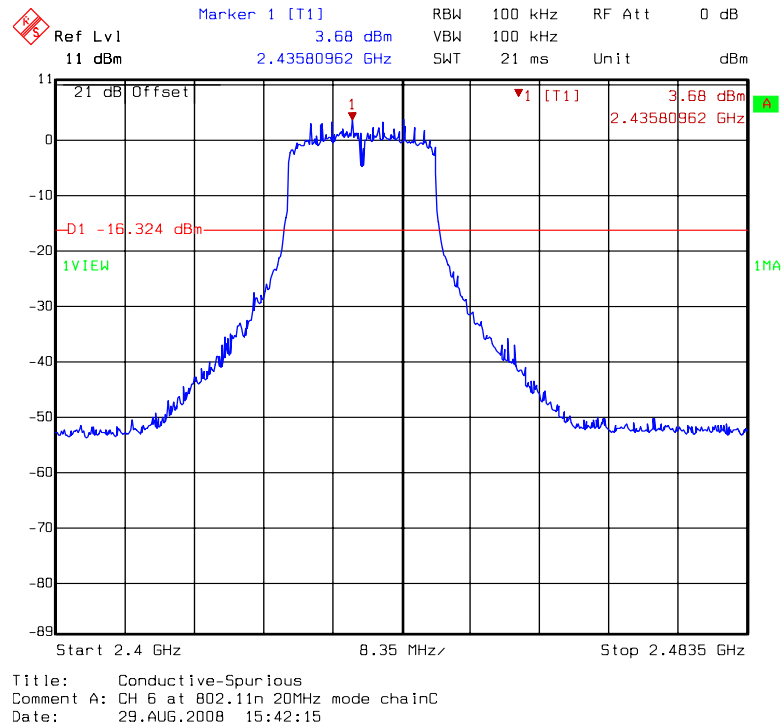
Chain C: conducted spurious @ 802.11n HT20 mode channel 1 (3 of 3)



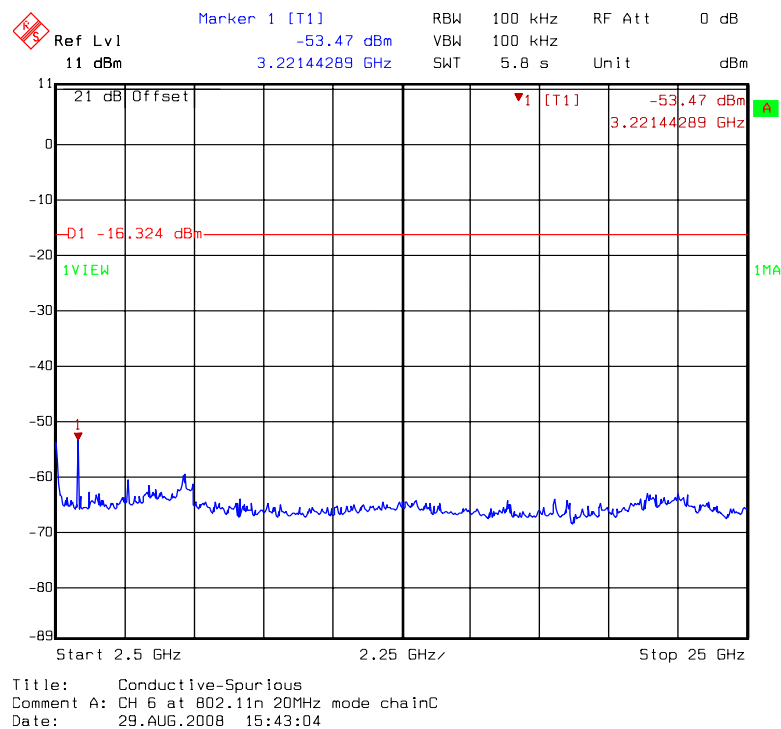
Chain C: conducted spurious @ 802.11n HT20 mode channel 6 (1 of 3)



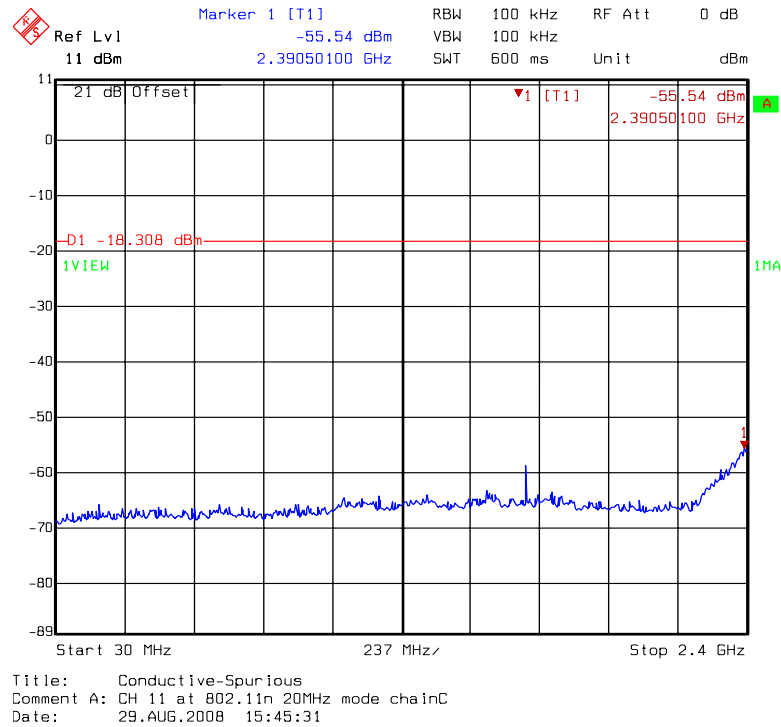
Chain C: conducted spurious @ 802.11n HT20 mode channel 6 (2 of 3)



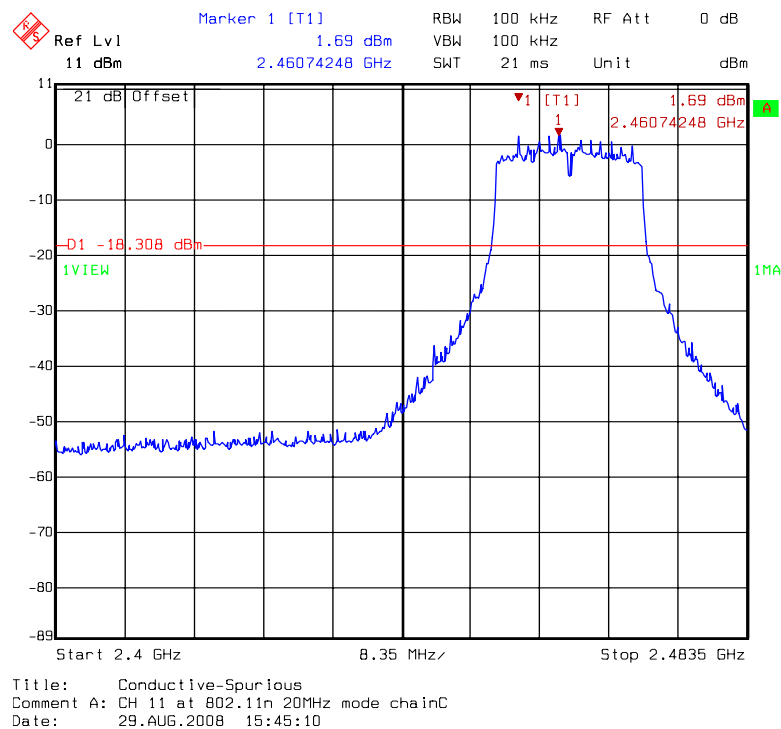
Chain C: conducted spurious @ 802.11n HT20 mode channel 6 (3 of 3)



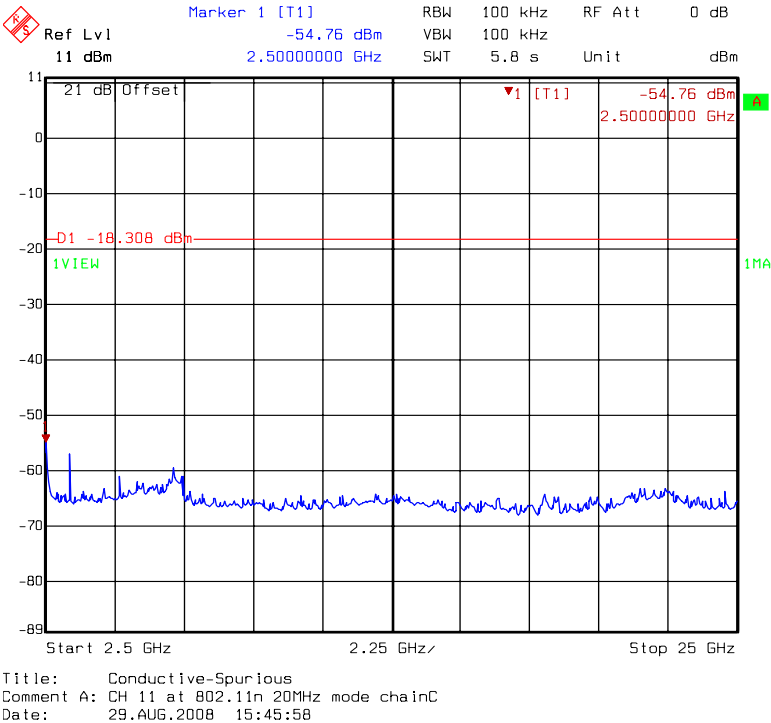
Chain C: conducted spurious @ 802.11n HT20 mode channel 11 (1 of 3)



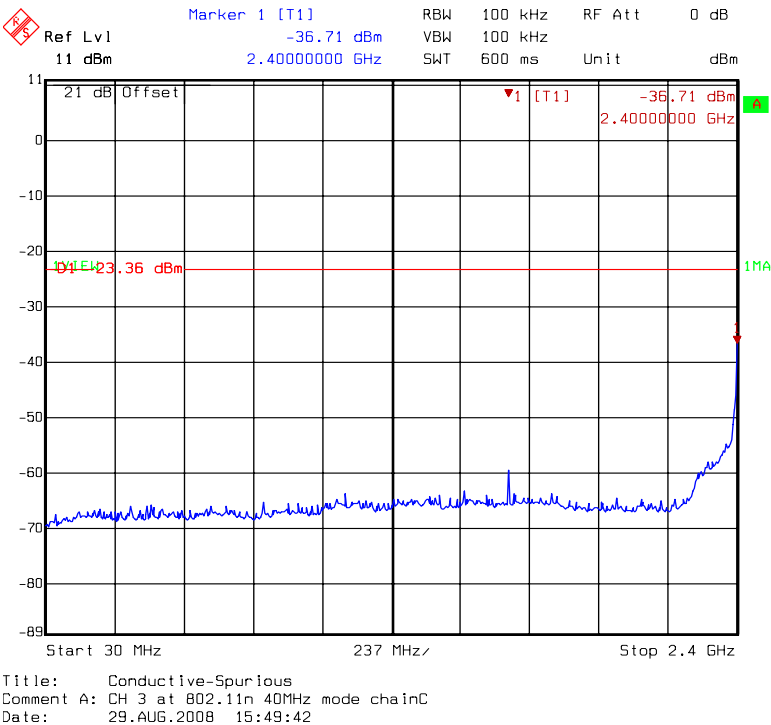
Chain C: conducted spurious @ 802.11n HT20 mode channel 11 (2 of 3)



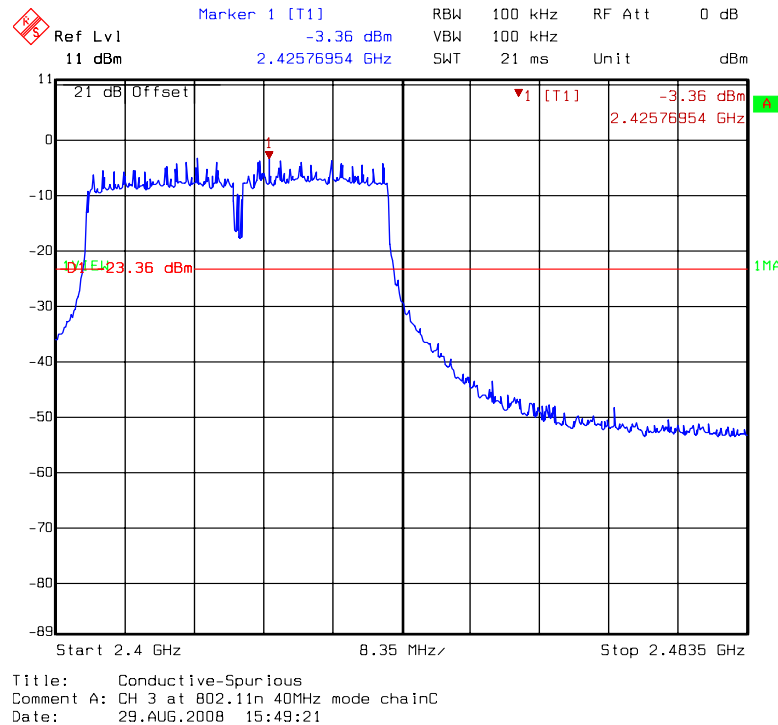
Chain C: conducted spurious @ 802.11n HT20 mode channel 11 (3 of 3)



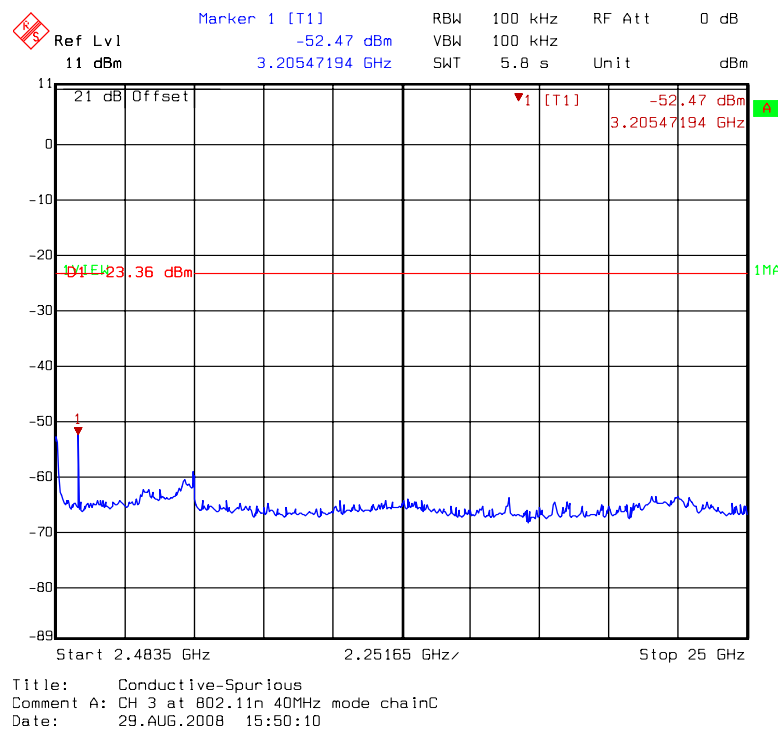
Chain C: conducted spurious @ 802.11n HT40 mode channel 3 (1 of 3)



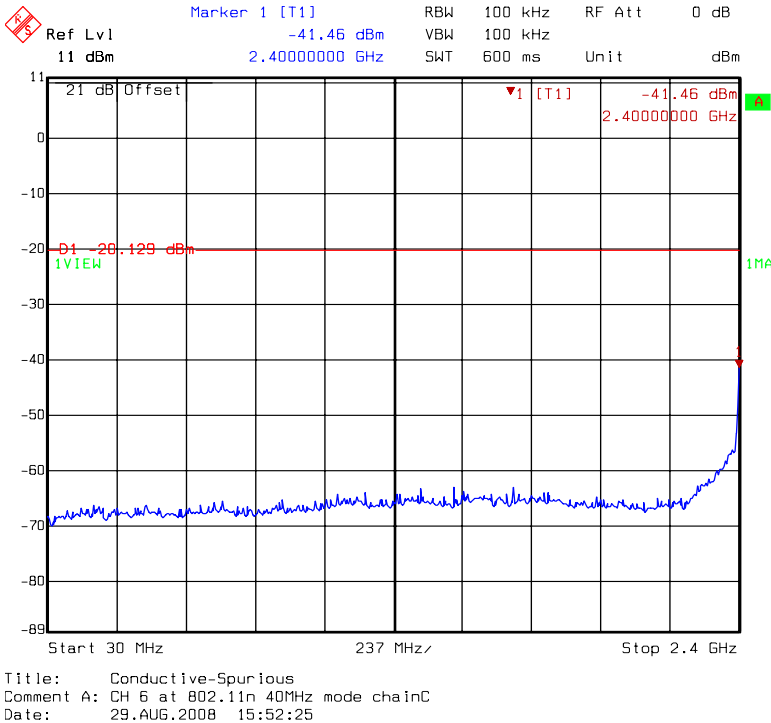
Chain C: conducted spurious @ 802.11n HT40 mode channel 3 (2 of 3)



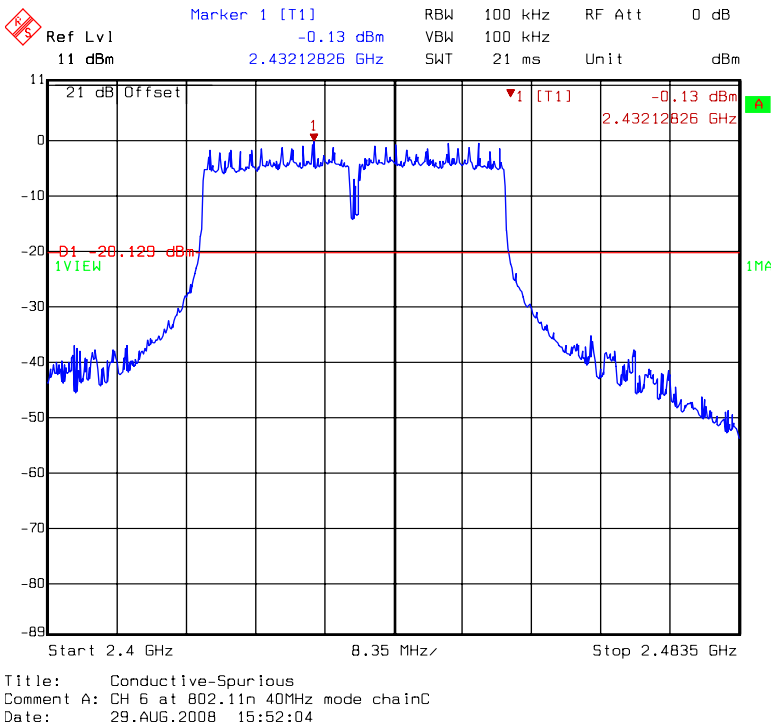
Chain C: conducted spurious @ 802.11n HT40 mode channel 3 (3 of 3)



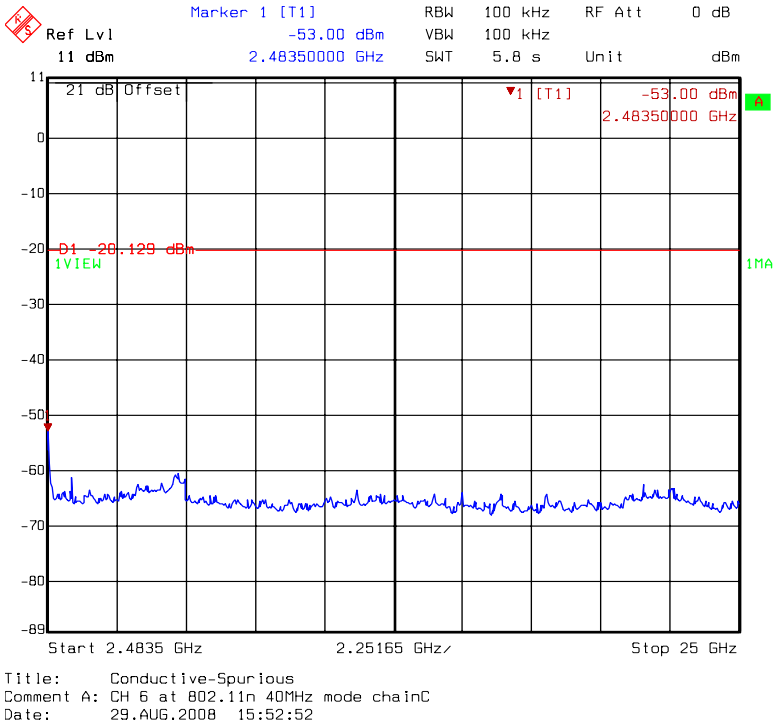
Chain C: conducted spurious @ 802.11n HT40 mode channel 6 (1 of 3)



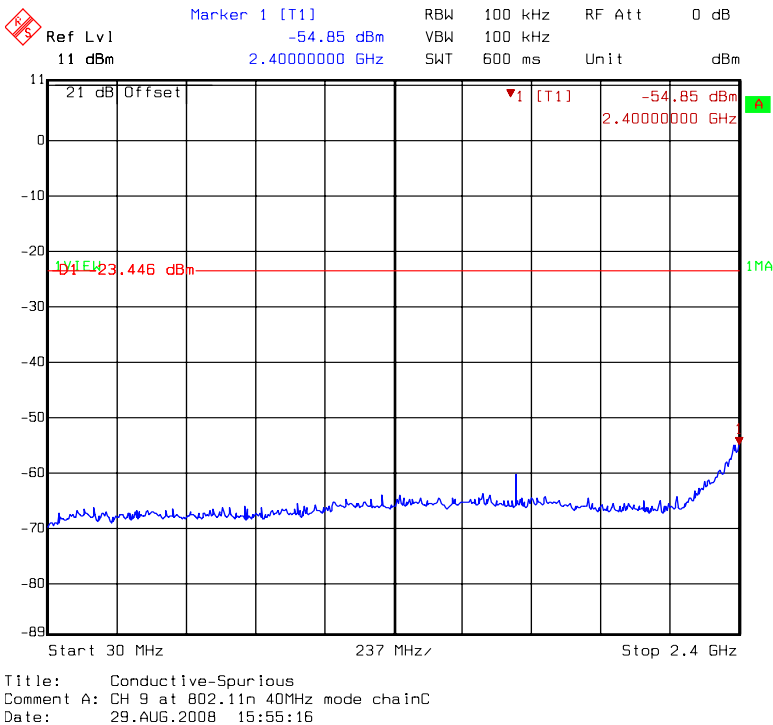
Chain C: conducted spurious @ 802.11n HT40 mode channel 6 (2 of 3)



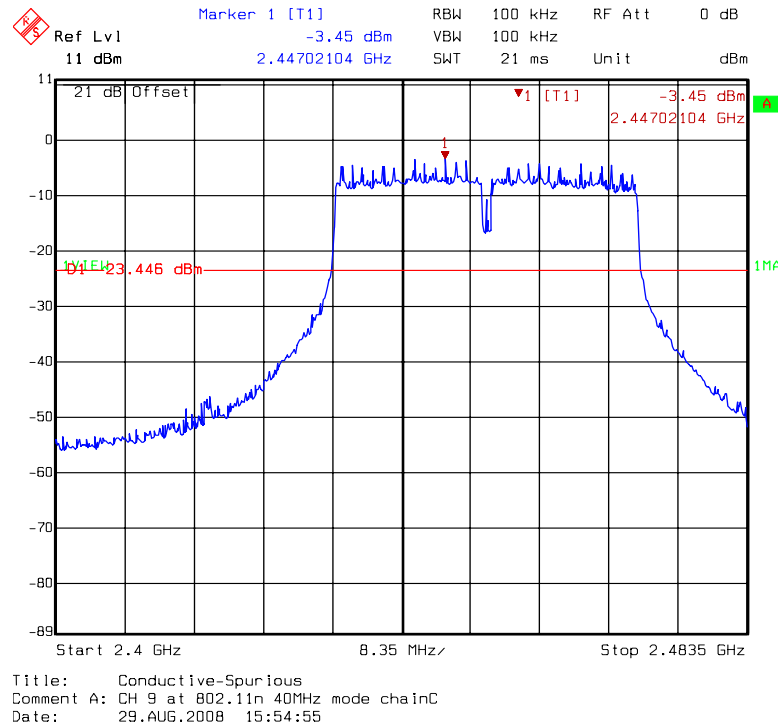
Chain C: conducted spurious @ 802.11n HT40 mode channel 6 (3 of 3)



Chain C: conducted spurious @ 802.11n HT40 mode channel 9 (1 of 3)



Chain C: conducted spurious @ 802.11n HT40 mode channel 9 (2 of 3)



Chain C: conducted spurious @ 802.11n HT40 mode channel 9 (3 of 3)

