

DTS BANDWIDTH FOR WIFI RADIO***Applicable Rules:***

CFR47 §15.247(a)(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

IC RSS-247 §5.2.1, C63.10

5.2 Digital Transmission Systems (DTSs)

DTSs include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902-928 MHz and 2400-2483.5 MHz

1. The minimum 6 dB bandwidth shall be 500 kHz.

DTS Bandwidth:

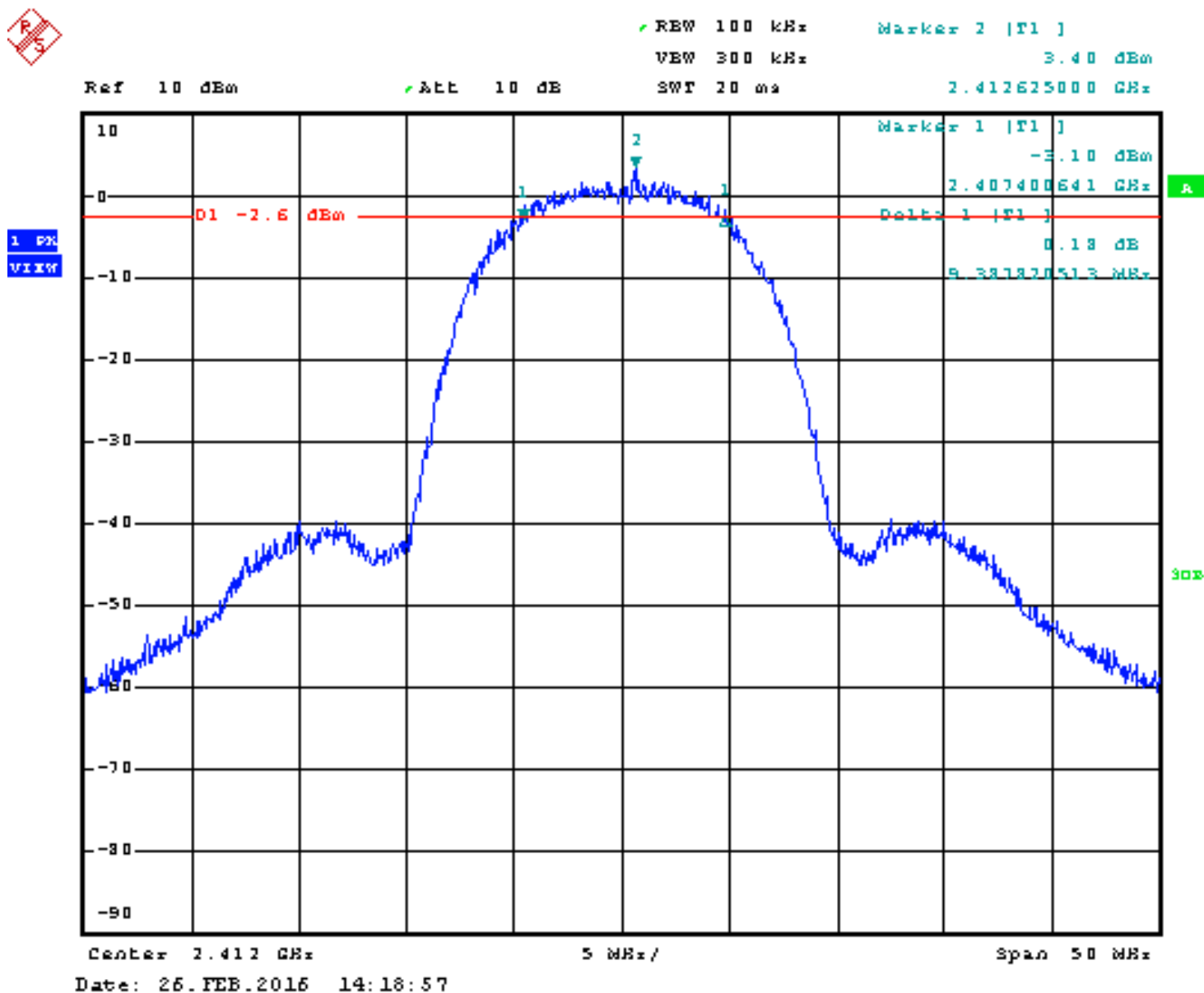
The maximum measured DTS bandwidths for 802.11b, 802.11g, and 802.11n modes are as follows:

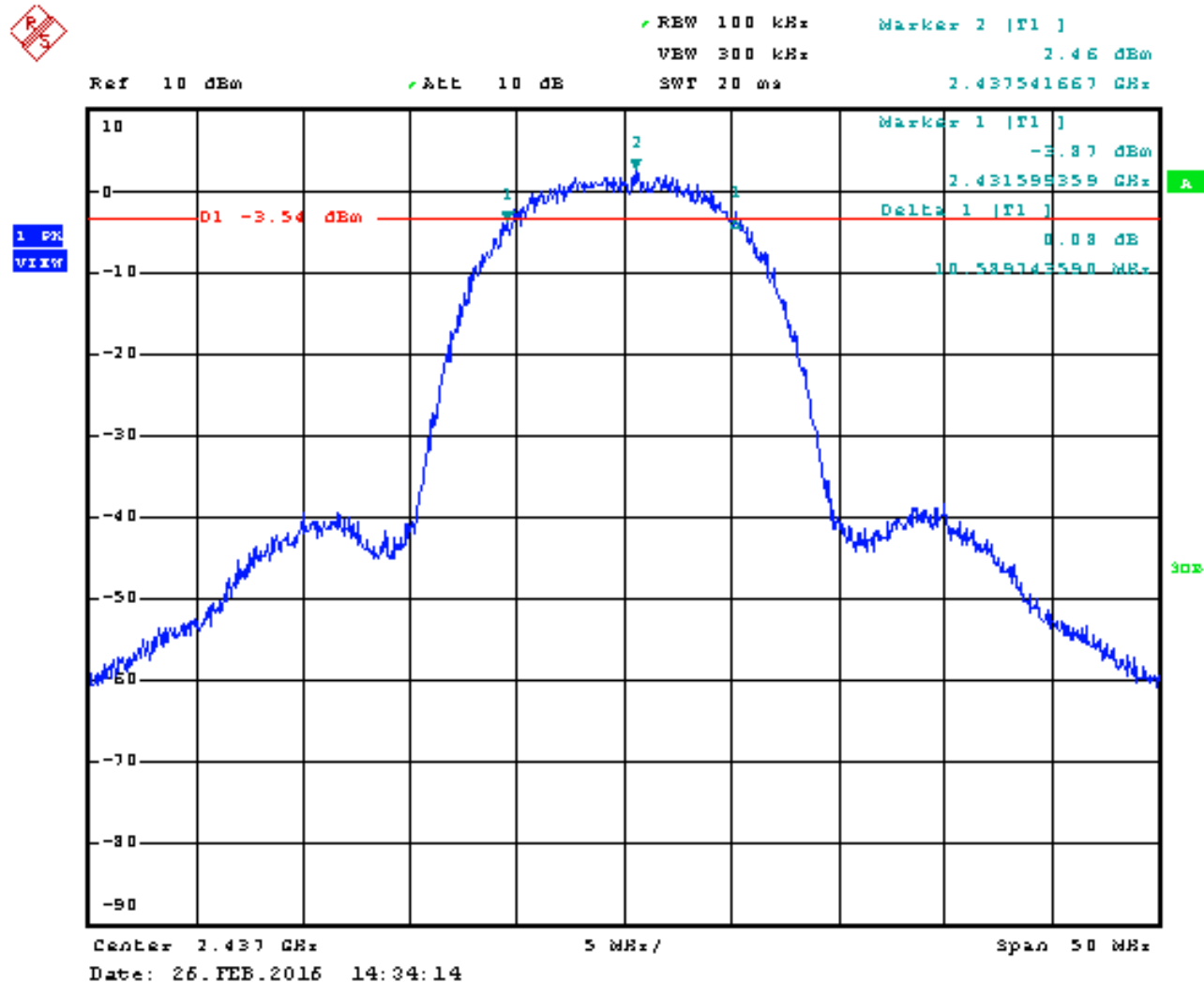
802.11b: 10.670 MHz (Ch 11, Ant 1).

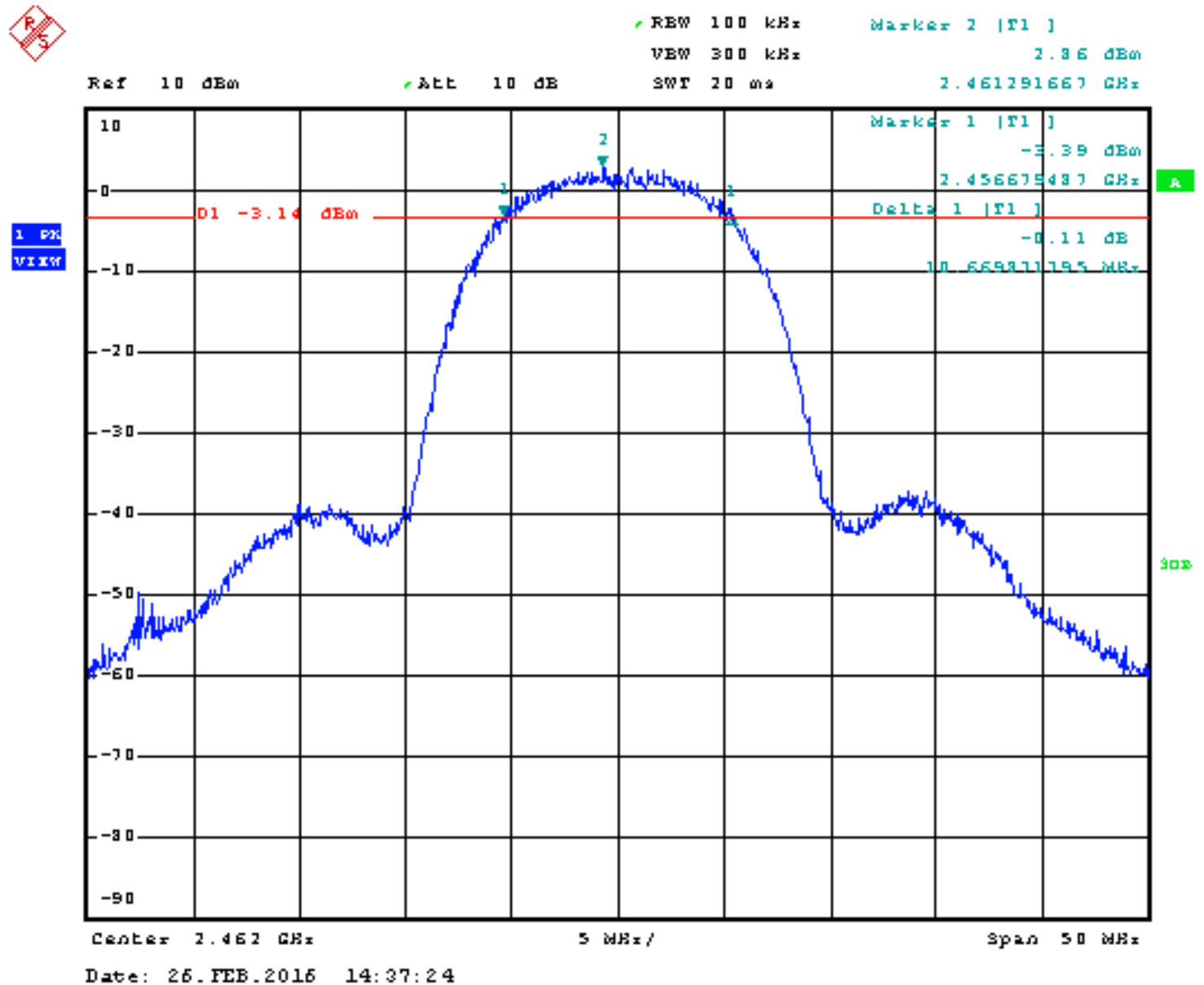
802.11g: 16.567 MHz (Ch 11, Ant 1).

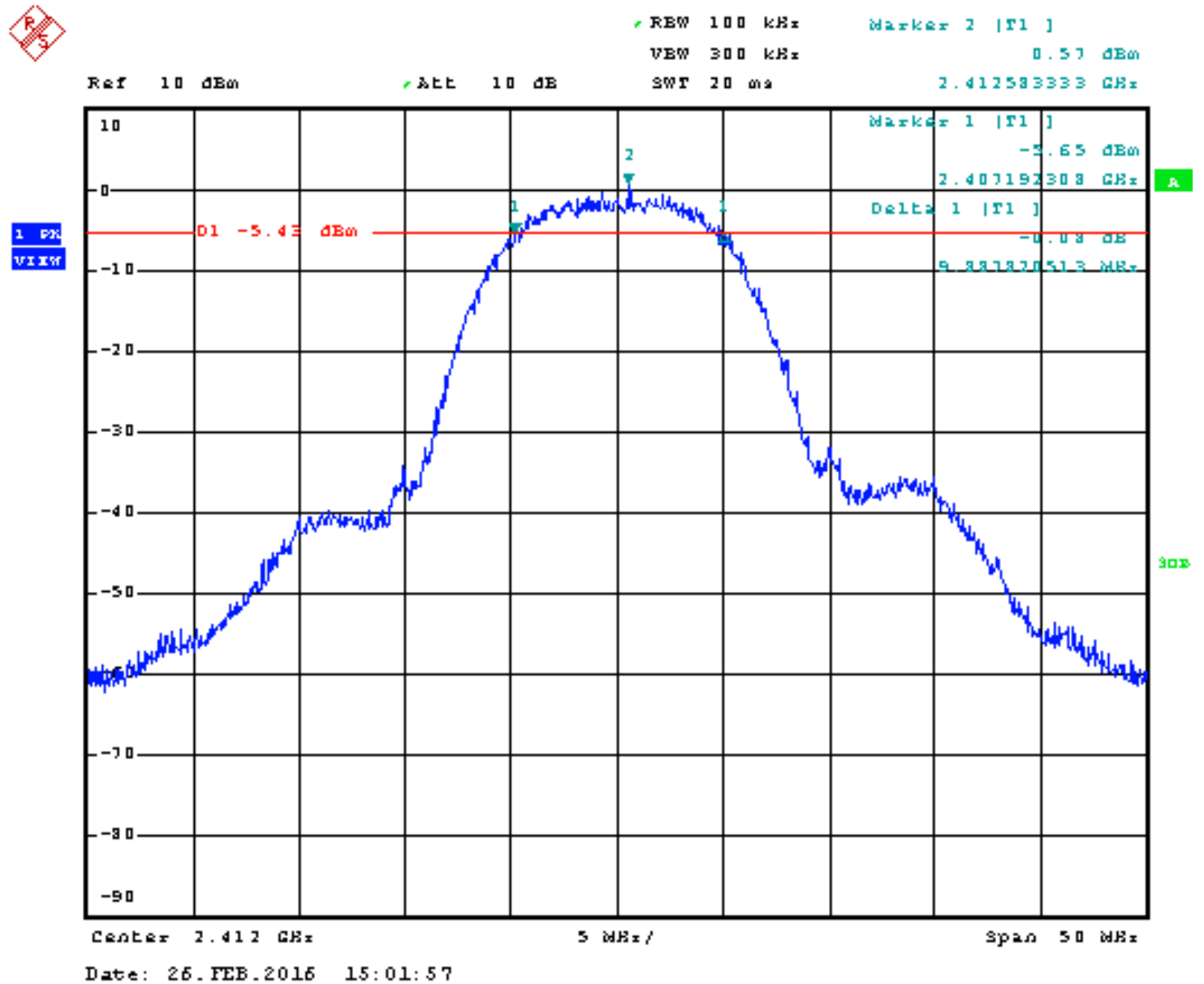
802.11n: 17.801 MHz (Ch 6, Ant 1).

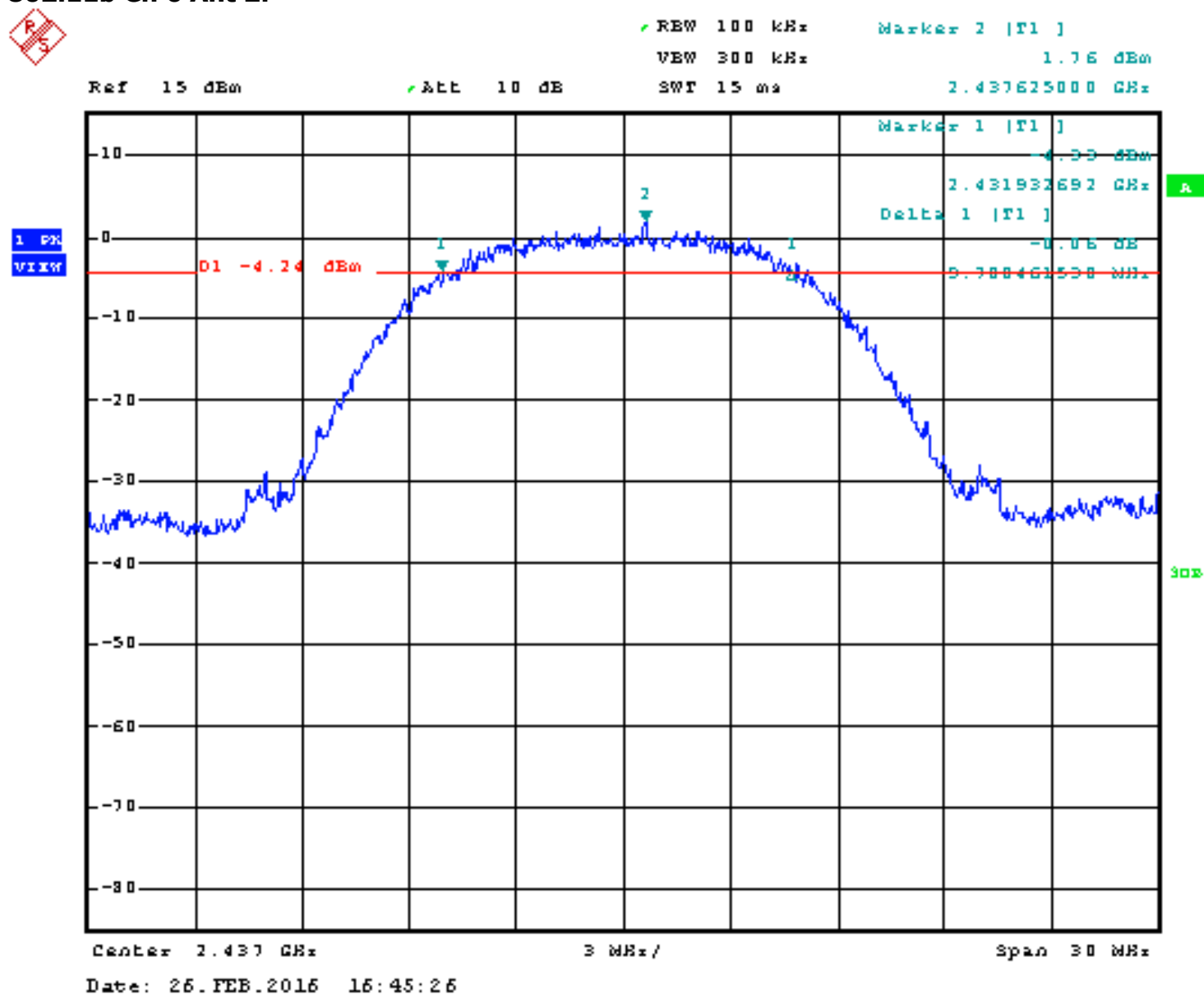
Measurements are shown below.

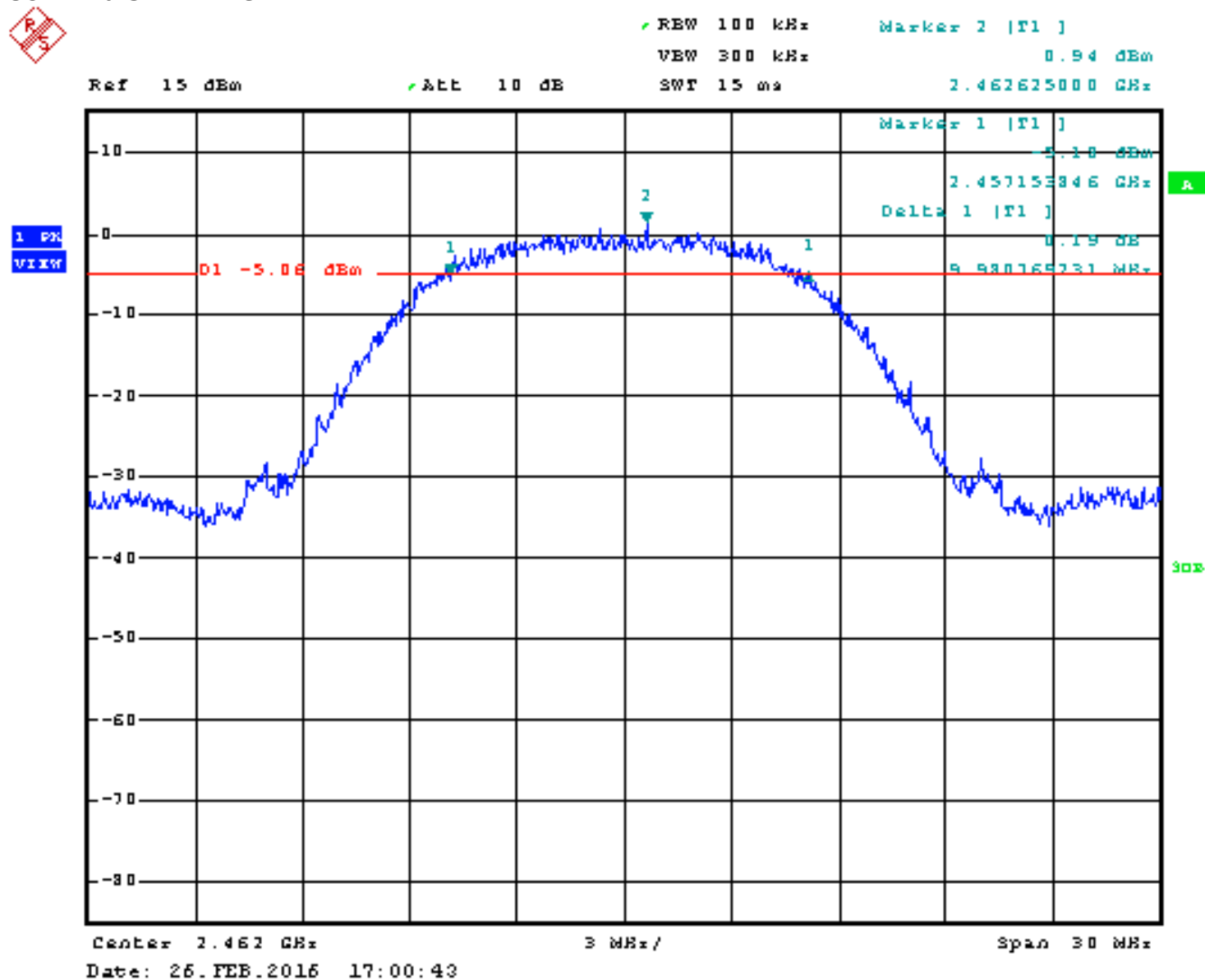
OCCUPIED BANDWIDTH CONT.**802.11b Ch 1 Ant 1:****6 dB DTS Bandwidth: 9.388 MHz**

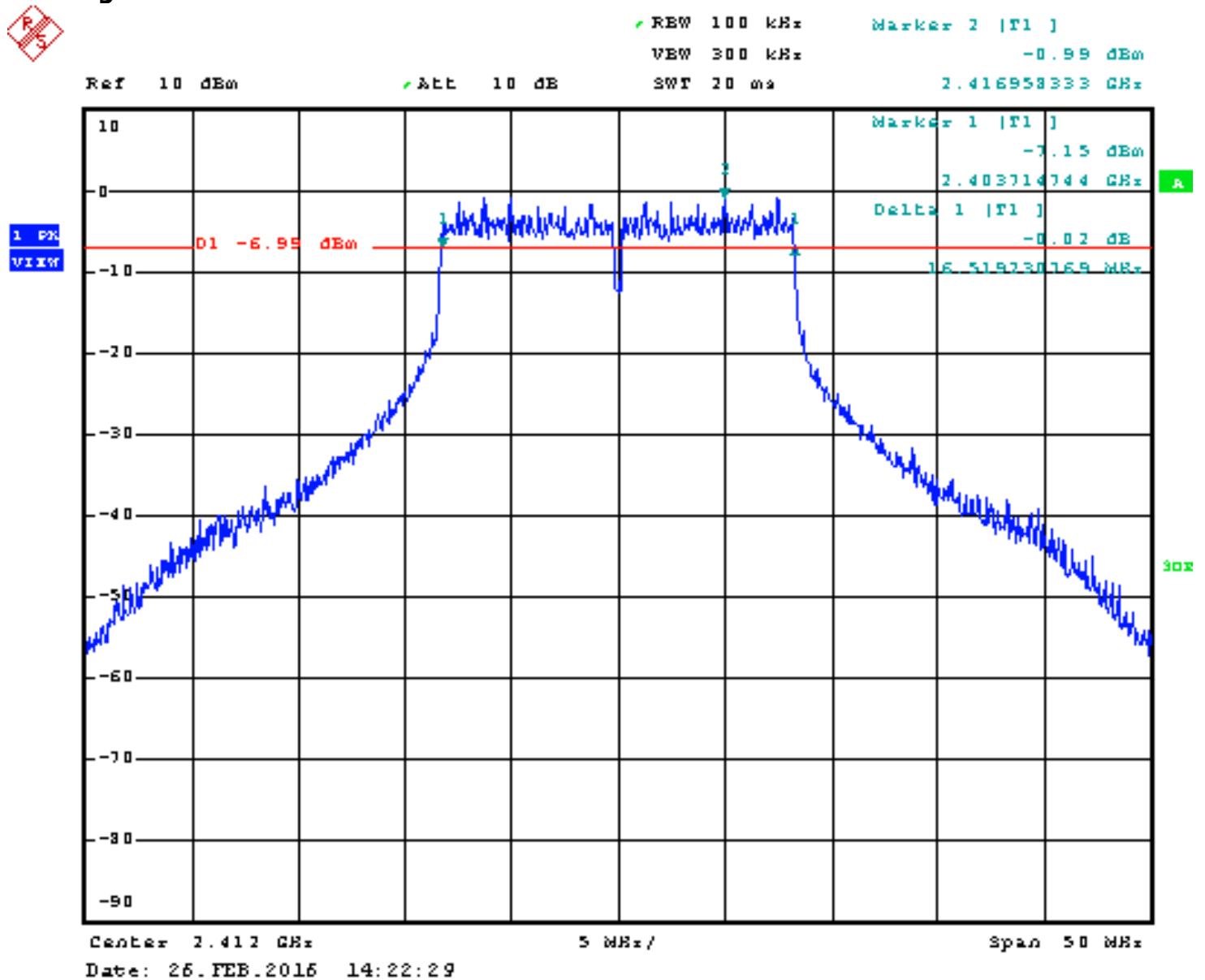
OCCUPIED BANDWIDTH CONT.**802.11b Ch 6 Ant 1:****6 dB DTS Bandwidth: 10.589 MHz**

OCCUPIED BANDWIDTH CONT.**802.11b Ch 11 Ant1:****6 dB DTS Bandwidth: 10.670 MHz**

OCCUPIED BANDWIDTH CONT.**802.11b Ch 1 Ant 2:****6 dB DTS Bandwidth: 9.888 MHz**

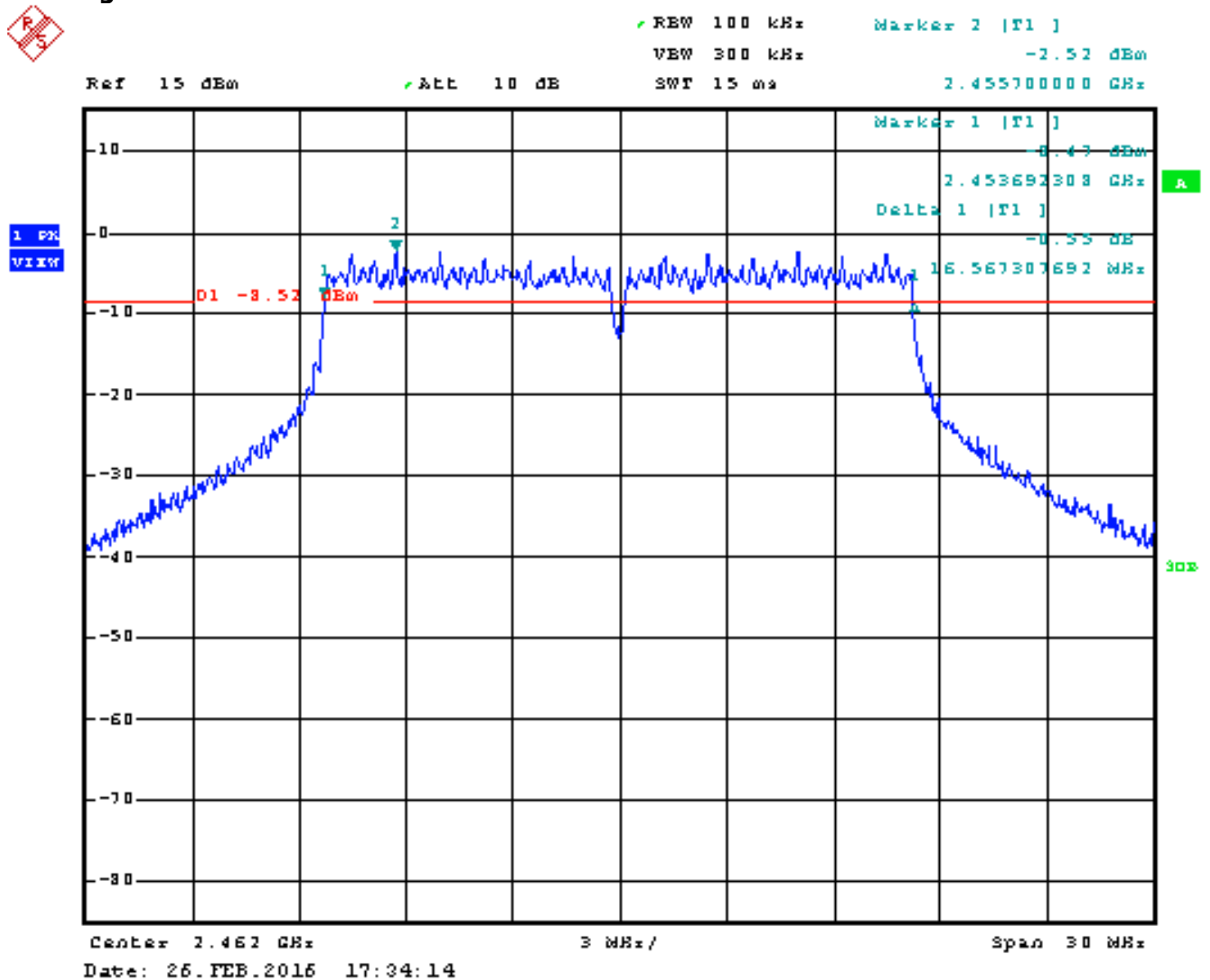
OCCUPIED BANDWIDTH CONT.**802.11b Ch 6 Ant 2:****6 dB DTS Bandwidth: 9.788 MHz**

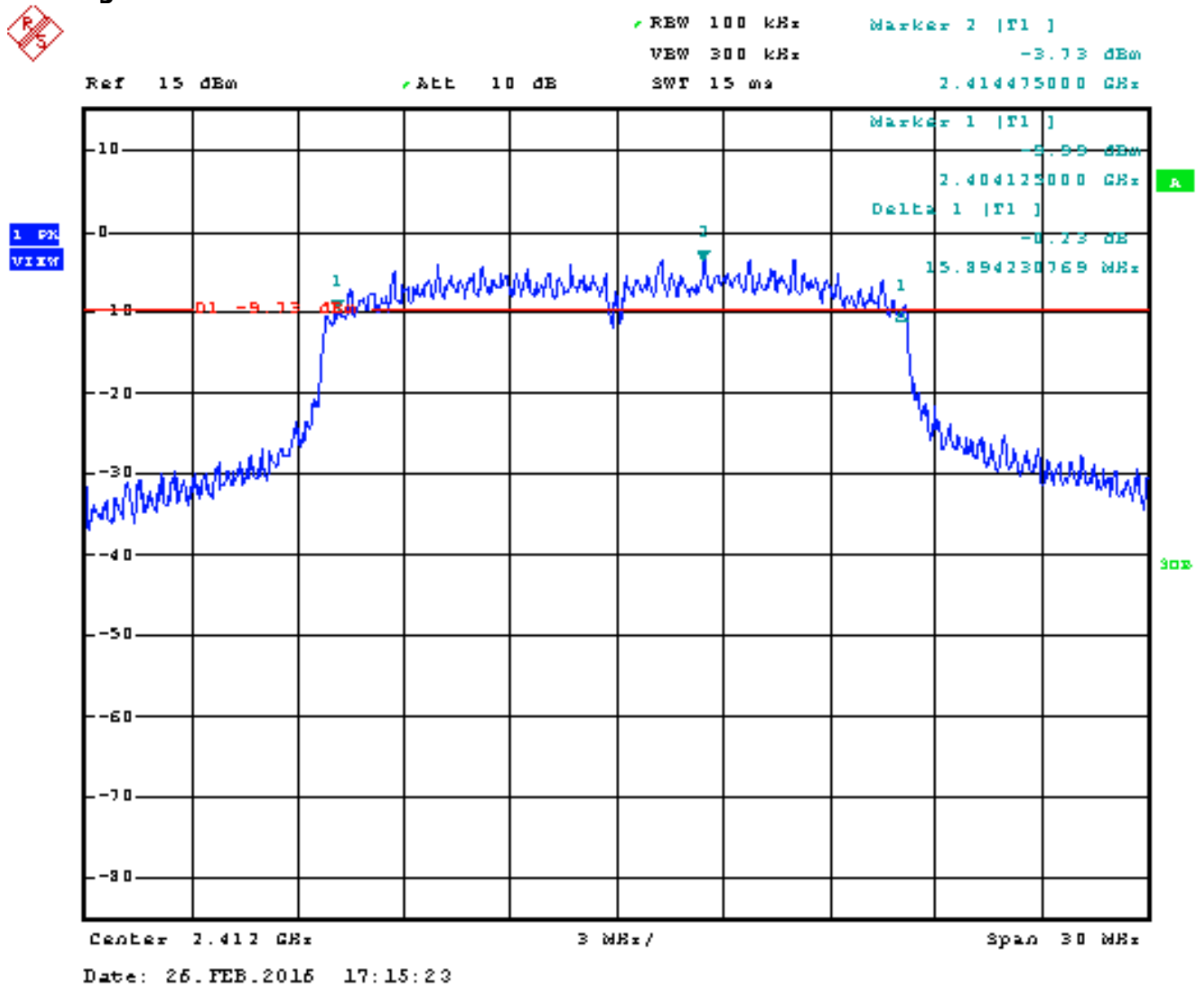
OCCUPIED BANDWIDTH CONT.**802.11b Ch 11 Ant 2:**

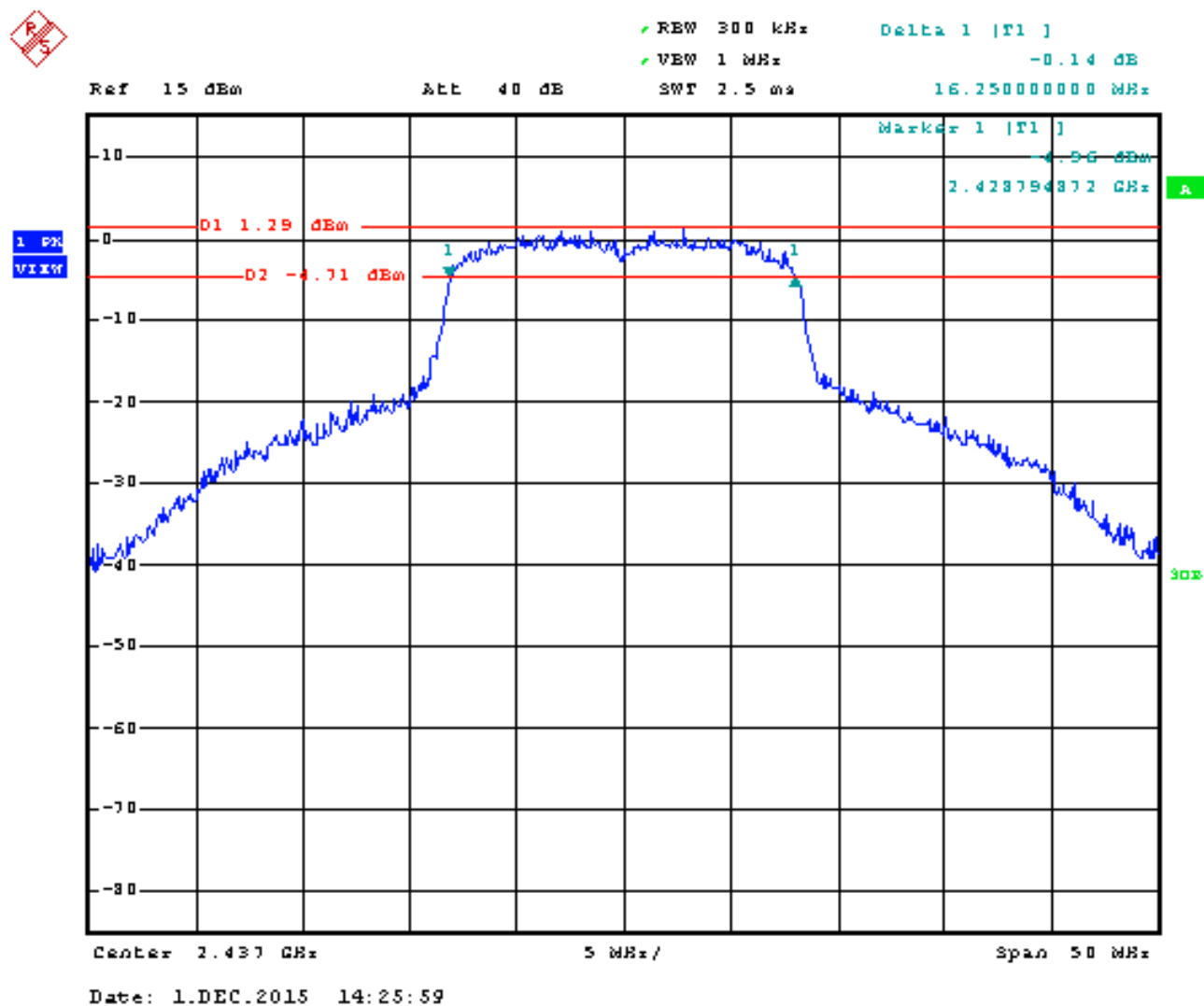
OCCUPIED BANDWIDTH CONT.**802.11g Ch 1 Ant 1:****6 dB DTS Bandwidth: 16.519 MHz**

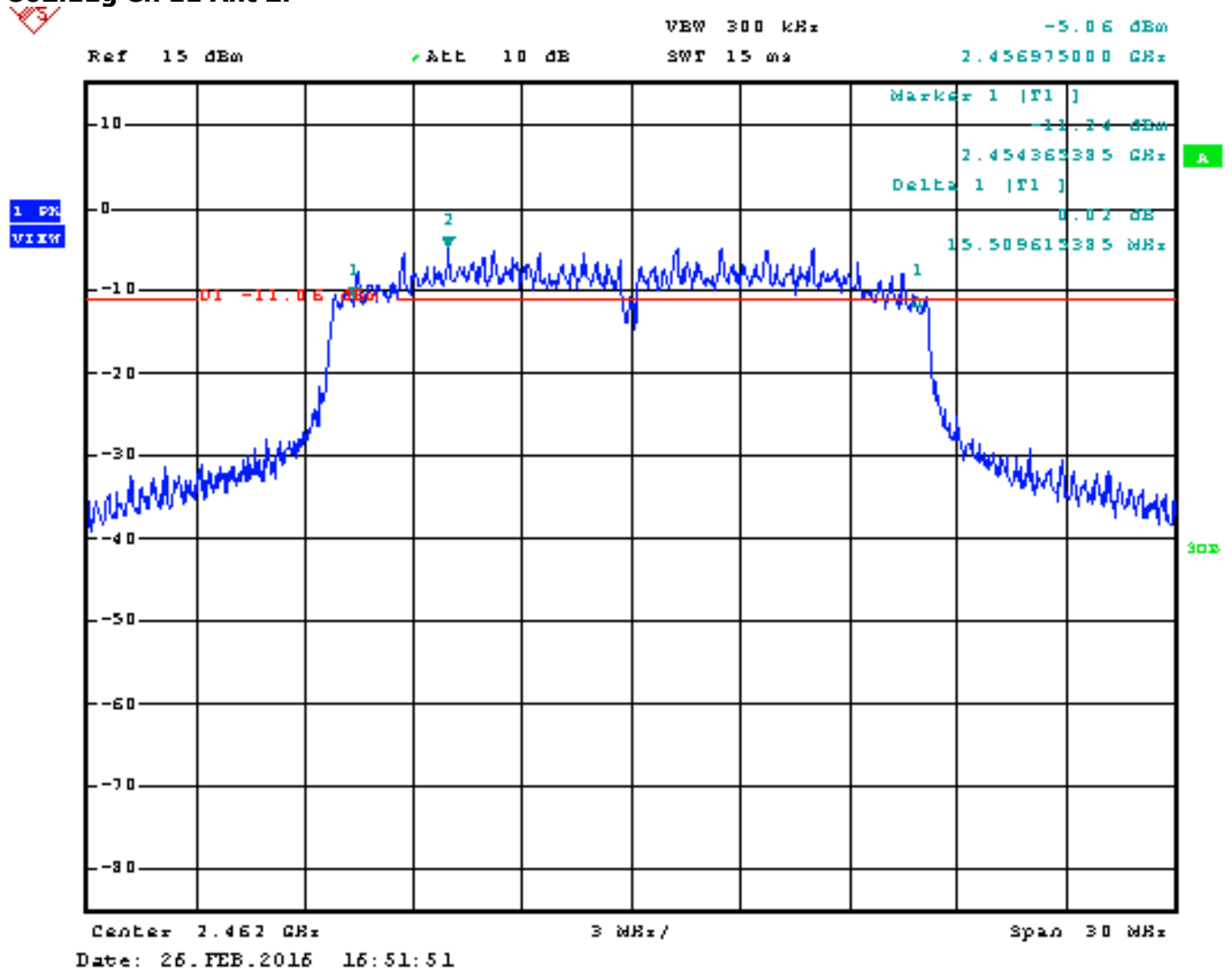
802.11g Ch 6 Ant 1:



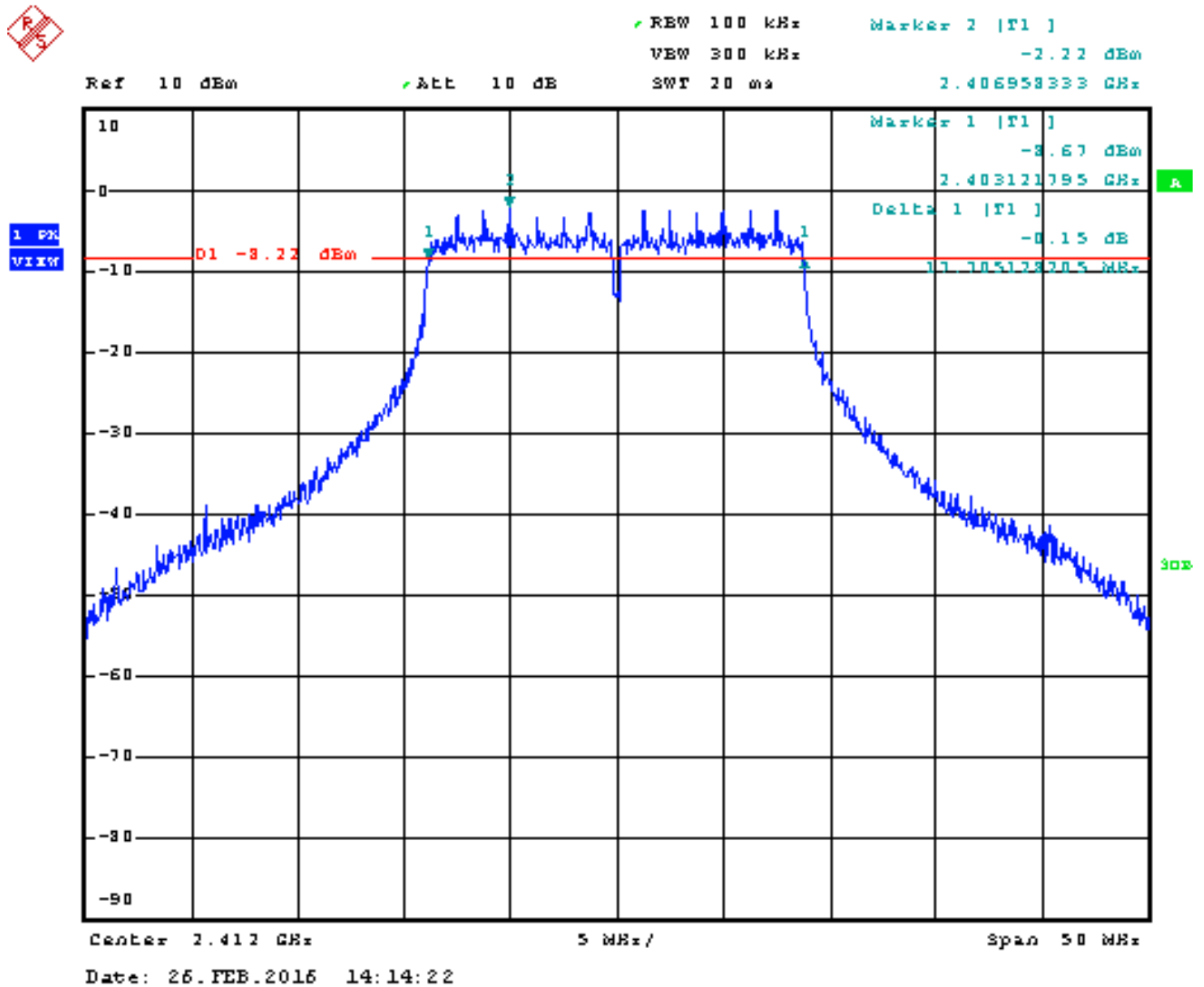
OCCUPIED BANDWIDTH CONT.**802.11g Ch 11 Ant 1:****6 dB DTS Bandwidth: 16.567 MHz**

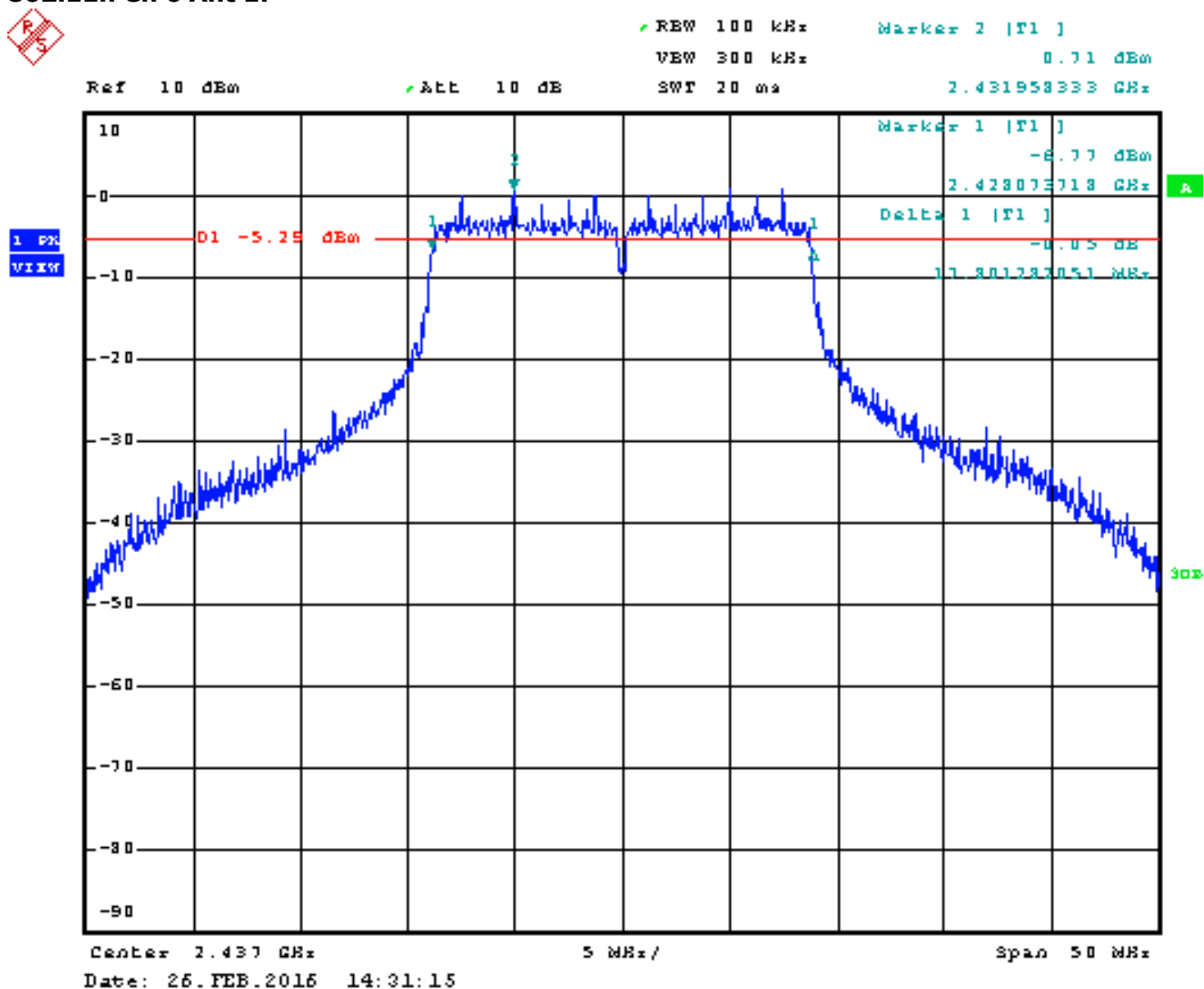
OCCUPIED BANDWIDTH CONT.**802.11g Ch 1 Ant 2:****6 dB DTS Bandwidth: 15.894 MHz**

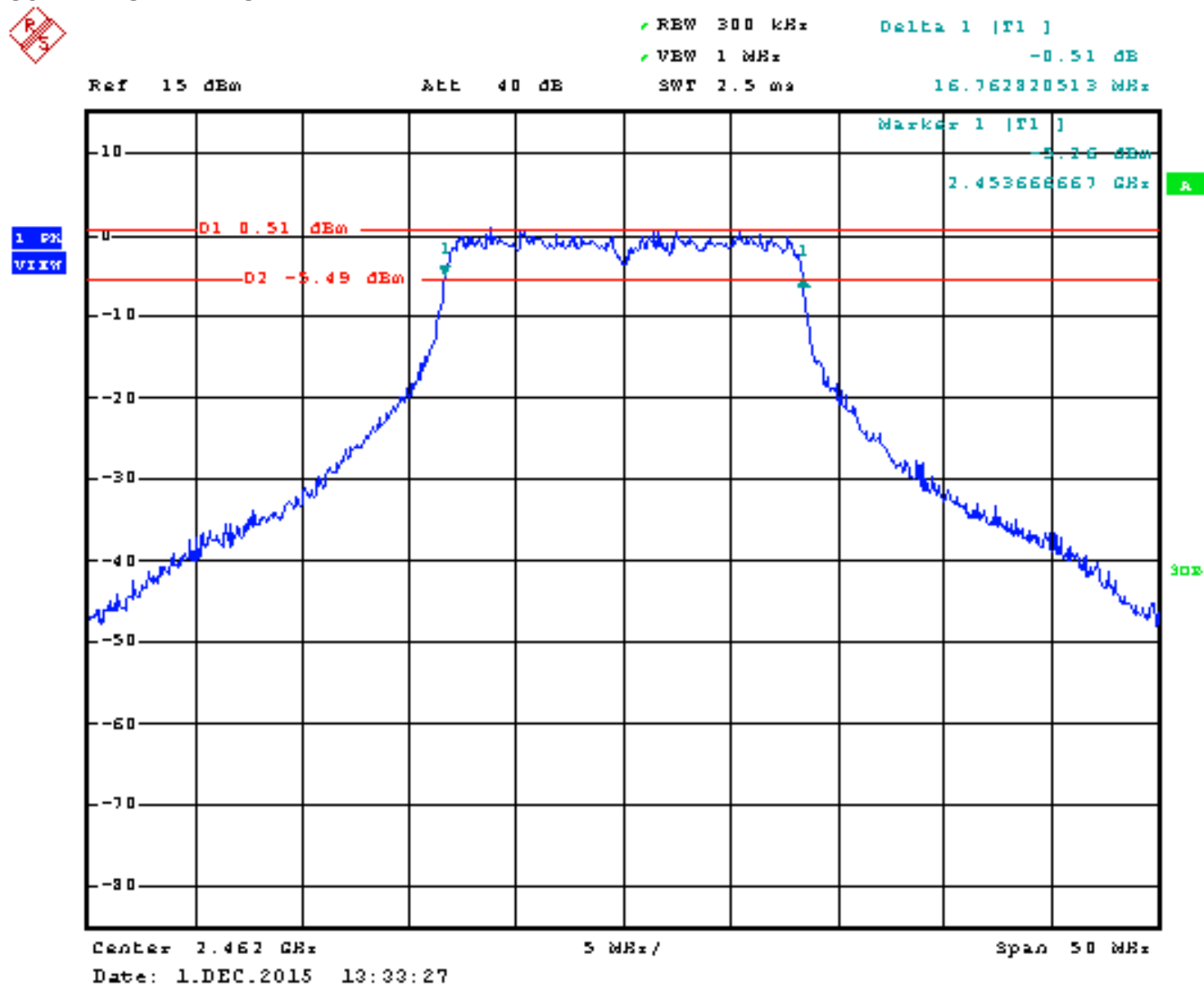
OCCUPIED BANDWIDTH CONT.**802.11g Ch 6 Ant 2:****6 dB DTS Bandwidth: 15.654 MHz**

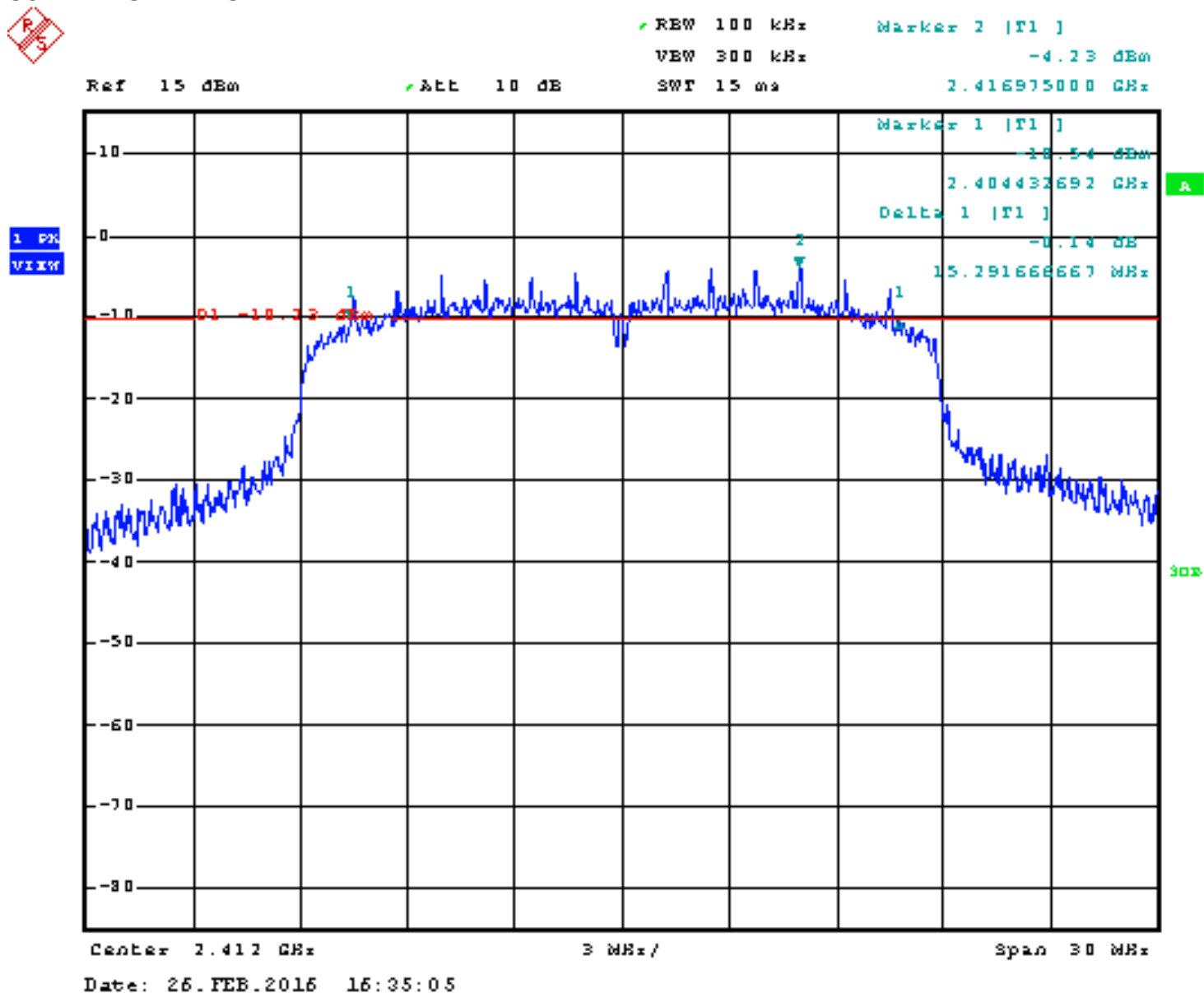
OCCUPIED BANDWIDTH CONT.**802.11g Ch 11 Ant 2:**

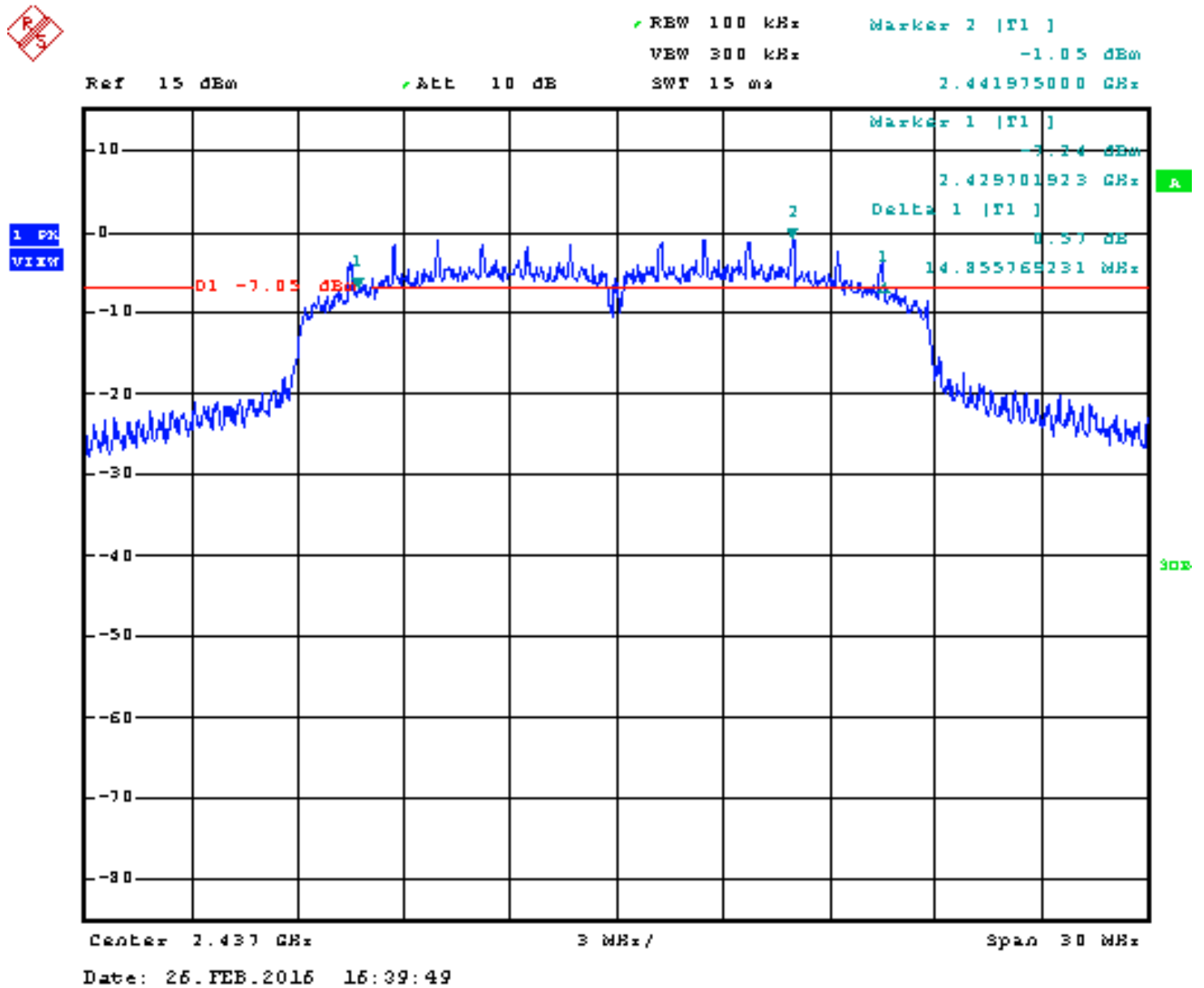
6 dB DTS Bandwidth: 15.510 MHz

OCCUPIED BANDWIDTH CONT.**802.11n Ch 1 Ant 1:****6 dB DTS Bandwidth: 17.710 MHz**

OCCUPIED BANDWIDTH CONT.**802.11n Ch 6 Ant 1:****6 dB DTS Bandwidth: 17.801 MHz**

OCCUPIED BANDWIDTH CONT.**802.11n Ch 11 Ant 1:****6 dB DTS Bandwidth: 16.519 MHz**

OCCUPIED BANDWIDTH CONT.**802.11n Ch 1 Ant 2:****6 dB DTS Bandwidth: 15.292 MHz**

OCCUPIED BANDWIDTH CONT.**802.11n Ch 6 Ant 2:****6 dB DTS Bandwidth: 14.856 MHz**

OCCUPIED BANDWIDTH CONT.**802.11n Ch 11 Ant 2:**