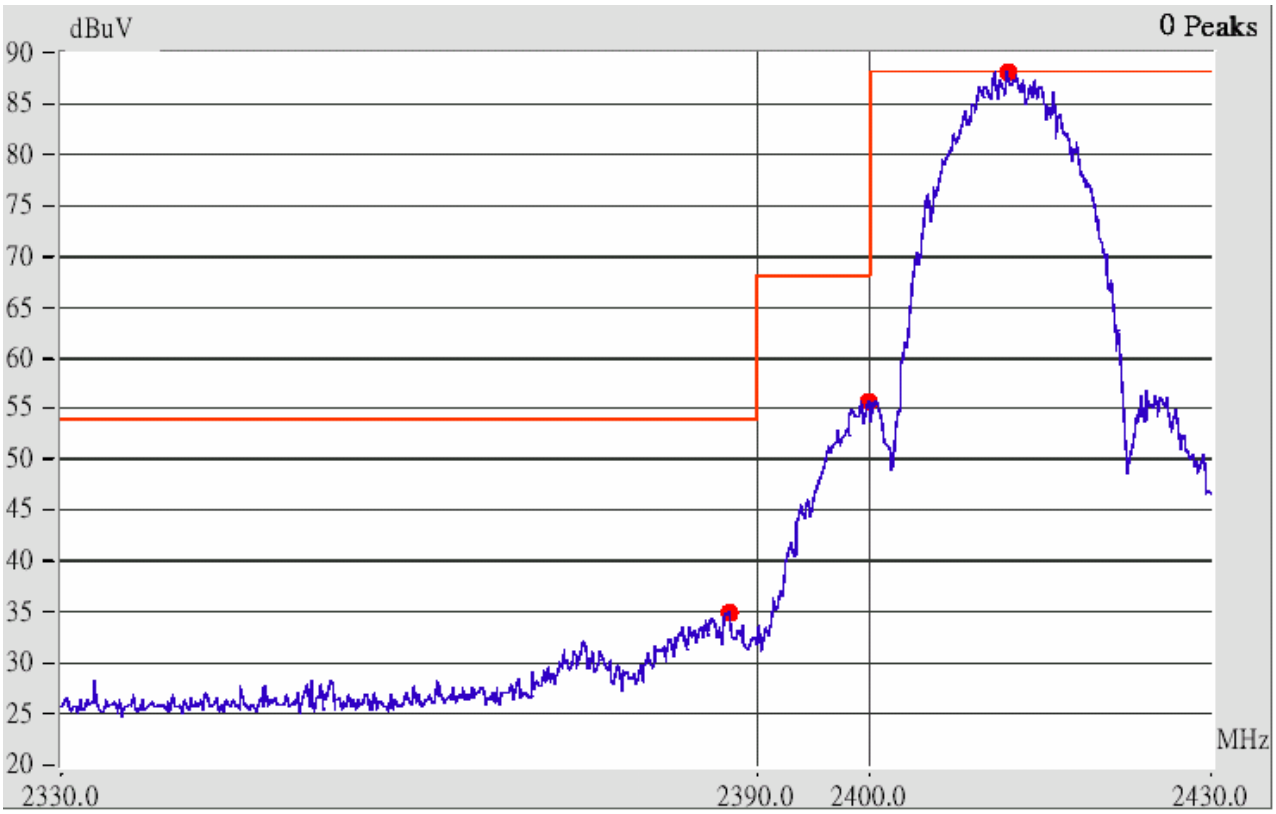
8.4 Test Result of the Bandedge

If any 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either *at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified id §15.209(a),*

We perform this section by the *radiated manner*, the RBW is set to 100kHz and VBW>RBW. We' d made the observation *up to 10th harmonics and the criterion is all the harmonic/spurious emissions must be 20dB below the highest emission level measured.* If the emissions fall in the restricted bands stated in the Part15.205(a) must also *comply with the radiated emission limits specified in Part15.209(a). (Peak mode: RBW=VBW=1MHz, Average mode: RBW=1MHz; VBW=10Hz)*

The following pages show our observations referring to the channel 1 and 11 respectively.
Test Condition & Setup: same as < 8.1 >

Channel 1



This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

1. The lobe left by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					***Corrected Amplitude (dBμV/m)***		***FCC Class B (3m)***		
Frequency (MHz)	***Ant. P.***	***Ant. H. (m)***	***Table (°)***	***Correction Factors (dB)***	***Peak***	***Average***	***Limit (dBμV/m) Peak***	***Ave.***	***Margin (dB)***
2382.92	Hor	1.00	156	3.11	47.11	---	74.00	53.96	-6.85
2390.07	Hor	1.00	318	3.14	45.80	---	74.00	53.96	-8.16
2385.36	Ver	1.00	215	3.12	48.29	---	74.00	53.96	-5.67
2390.07	Ver	1.00	138	3.14	45.80	---	74.00	53.96	-8.16

Channel 11

This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

1. The lobe right by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*FCC Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Correction Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2483.50	Hor	1.00	64	3.45	47.28	---	74.00	53.96	-6.68
2487.87	Hor	1.00	313	3.46	48.96	---	74.00	53.96	-5.00
2500.01	Hor	1.00	181	3.50	46.00	---	74.00	53.96	-7.96
2500.18	Hor	1.00	44	3.50	48.00	---	74.00	53.96	-5.96
2483.50	Ver	1.00	123	3.45	47.28	---	74.00	53.96	-6.68
2491.03	Ver	1.00	47	3.47	48.80	---	74.00	53.96	-5.16
2500.01	Ver	1.00	110	3.50	45.83	---	74.00	53.96	-8.13
2520.25	Ver	1.00	14	3.53	47.86	---	74.00	53.96	-6.10

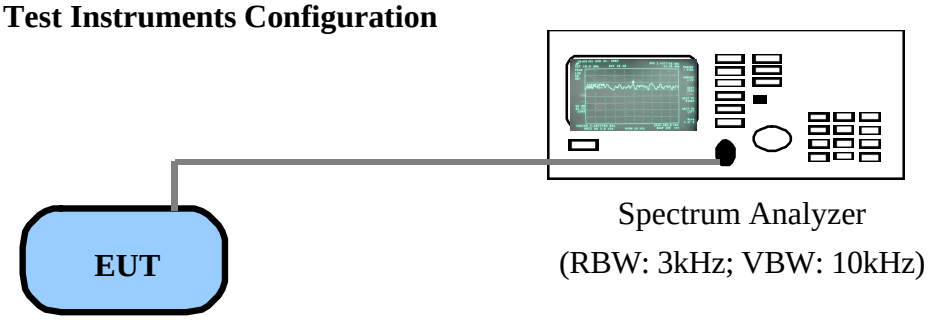
IX. Section 15.247(d): Power Spectral Density

9.1 Test Condition & Setup

The tests below are running with the EUT transmitter set at high power in TDD mode. The EUT is needed to force selection of output power level and channel number. While testing, the EUT was set to transmit continuously and to be tested by the contact manner with the spectrum analyzer.

The attachments below show our observation.

9.2 Test Instruments Configuration



P.S.: Notebook computer to control the EUT at maximal power output and channel number and set antenna kit

Test Configuration of Power Spectral Density

9.3 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
Spectrum Analyzer	8564E	H P	US36433002	08/01/02	08/01/03

9.4 Test Result of Power spectral density

The following table shows a summary of the test results of the Power Spectral Density.

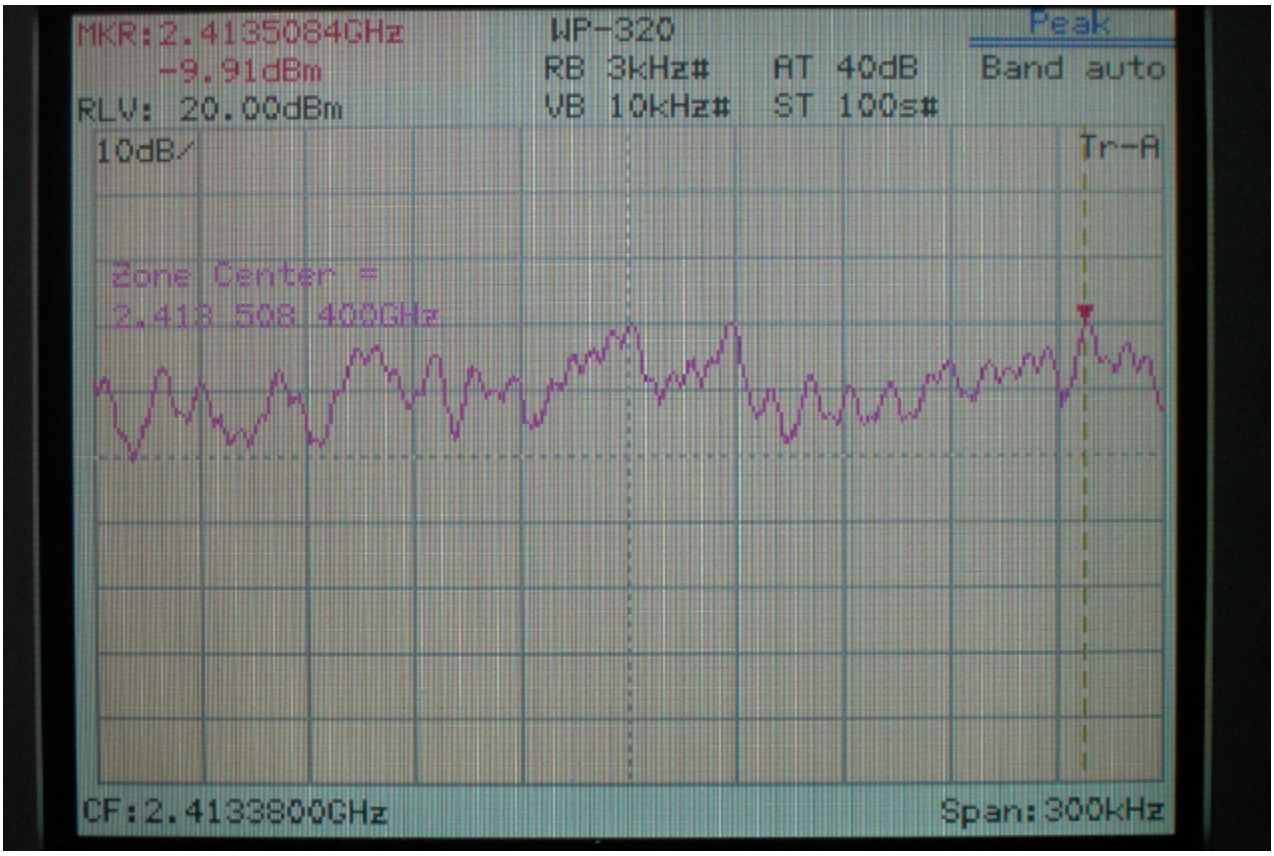
Channel	*Frequency (GHz)*	*Ppr (dBm)*	*Cable Loss (dB)*	*Ppq (dBm)*	*Limit (dB)*	*Margin (dB)*
CH 01	2.413	-9.91	0.7	-9.21	8.00	-17.21
CH 06	2.438	-10.09	0.7	-9.39	8.00	-17.39
CH 11	2.463	-10.54	0.7	-9.84	8.00	-17.84

Note:

1. The attachment following by this page.
2. Ppr: spectrum read power density (using peak search mode),

   Ppq: actual peak power density in the spread spectrum band.
3. Ppq = Ppr + |Cable Loss|

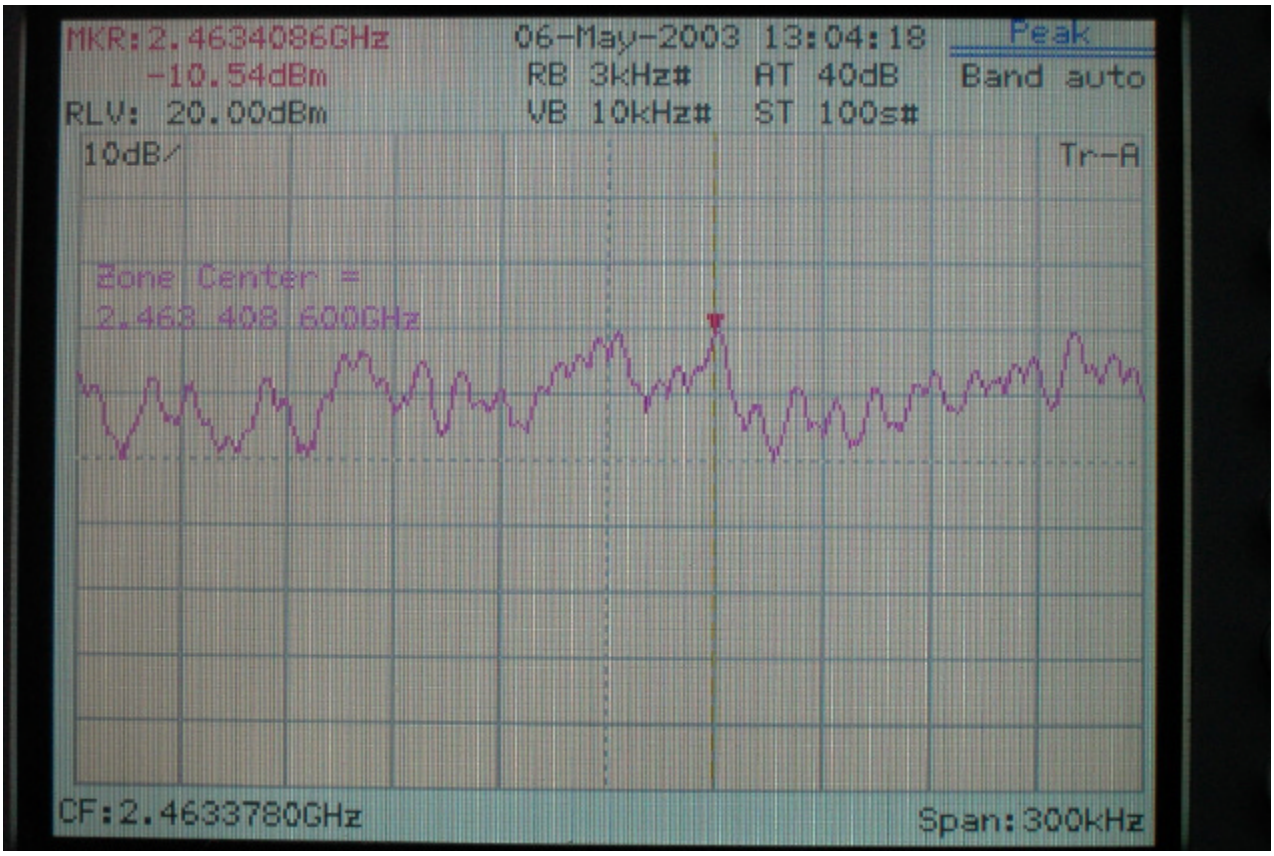
Channel 01


MKR:2.4135084GHz
-9.91dBm
RLV: 20.00dBm
WP-320
RB 3kHz#
VB 10kHz#
AT 40dB
ST 100s#
Peak
Band auto
10dB/
Tr-A
Zone Center =
2.413 508 400GHz
CF:2.4133800GHz
Span:300kHz

Channel 06

MKR:2.4385062GHz
-10.09dBm
RLV: 20.00dBm
WP-320
RB 3kHz#
VB 10kHz#
AT 40dB
ST 100s#
Peak
Band auto
10dB/
Tr-A
Zone Center =
2.438 506 200GHz
CF:2.4383790GHz
Span:300kHz

Channel 11


MKR:2.4634086GHz
-10.54dBm
RLV: 20.00dBm
06-May-2003 13:04:18
RB 3kHz#
VB 10kHz#
AT 40dB
ST 100s#
Peak
Band auto
10dB/
Tr-A
Zone Center =
2.463 408 600GHz
CF:2.4633780GHz
Span:300kHz