

Table 8 Radiated Emissions For 1GHz 25GHz [Horizontal] [CH 1]

Radiated Emission				Corrected Amplitude		FCC Class B (3m)		
Frequency (MHz)	Ant. H. (m)	Table (°)	Correction Factors (dB)	(dBμV/m)		Limit (dBμV/m)		Margin (dB)
				Peak	Average	Peak	Ave.	
2580.21	1.00	35	3.61	50.11	---	74.00	53.96	-3.85
4823.12	1.00	212	3.76	49.86	---	74.00	53.96	-4.10
7235.29	1.00	215	10.08	53.04	48.85	74.00	53.96	-5.11
9648.41	1.00	84	11.46	47.73	---	74.00	53.96	-6.23

Table 9 Radiated Emissions For 1GHz 25GHz [Vertical] [CH 1]

Radiated Emission				Corrected Amplitude		FCC Class B (3m)		
Frequency (MHz)	Ant. H. (m)	Table (°)	Correction Factors (Db)	(DbμV/m)		Limit (DbμV/m)		Margin (Db)
				Peak	Average	Peak	Ave.	
2579.98	1.00	13	3.61	56.11	53.24	74.00	53.96	-0.72
4824.03	1.00	13	3.76	56.53	52.70	74.00	53.96	-1.26
7235.20	1.00	211	10.08	57.19	53.26	74.00	53.96	-0.70
9647.95	1.00	47	11.46	53.90	52.57	74.00	53.96	-1.39

Note:

1. Margin = Corrected - Limit.
2. The EUT utilizes a *permanently attached antenna*. In addition the spurious RF radiated emissions levels do comply with the *20dBc limit* both at its bandedges and other spurious emissions.
3. As stated in Section 15.35(b), for any frequencies above 1000MHz, radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. As the results of our test, the peak amplitudes are already below the FCC limit. Thus the average amplitudes of the rest are omitted.

Table 10 Radiated Emissions For 1GHz 25GHz [Horizontal] [CH 6]

Radiated Emission				Corrected Amplitude		FCC Class B (3m)		
Frequency (MHz)	Ant. H. (m)	Table (°)	Correction Factors (dB)	(dBμV/m)		Limit (dBμV/m)		Margin (dB)
				Peak	Average	Peak	Ave.	
4126.32	1.00	51	1.56	39.50	---	74.00	53.96	-14.46
4873.47	1.00	213	3.95	51.06	---	74.00	53.96	-2.90
7310.28	1.00	125	10.30	49.90	---	74.00	53.96	-4.06
9749.10	1.00	55	11.90	47.00	---	74.00	53.96	-6.96

Table 11 Radiated Emissions For 1GHz 25GHz [Vertical] [CH 6]

Radiated Emission				Corrected Amplitude		FCC Class B (3m)		
Frequency (MHz)	Ant. H. (m)	Table (°)	Correction Factors (dB)	(dBμV/m)		Limit (dBμV/m)		Margin (dB)
				Peak	Average	Peak	Ave.	
2630.21	1.00	56	3.67	50.84	---	74.00	53.96	-3.12
4128.33	1.00	11	1.57	37.68	---	74.00	53.96	-16.28
4873.92	1.00	193	3.96	56.23	52.90	74.00	53.96	-1.06
7312.29	1.00	301	10.30	52.74	---	74.00	53.96	-1.22
9749.10	1.00	333	11.90	52.34	---	74.00	53.96	-1.62

Table 12 Radiated Emissions For 1GHz 25GHz [Horizontal] [CH 11]

Radiated Emission				Corrected Amplitude		FCC Class B (3m)		
Frequency (MHz)	Ant. H. (m)	Table (°)	Correction Factors (dB)	(dBµV/m)		Limit (dBµV/m)		Margin (dB)
				Peak	Average	Peak	Ave.	
2305.99	1.00	143	2.86	56.69	48.53	74.00	53.96	-5.43
4176.66	1.00	102	1.86	40.97	---	74.00	53.96	-12.99
4923.82	1.00	86	4.12	48.90	---	74.00	53.96	-5.06
7388.82	1.00	74	10.42	46.69	---	74.00	53.96	-7.27
9847.78	1.00	159	11.93	46.70	---	74.00	53.96	-7.26

Table 13 Radiated Emissions For 1GHz 25GHz [Vertical] [CH 11]

Radiated Emission				Corrected Amplitude		FCC Class B (3m)		
Frequency (MHz)	Ant. H. (m)	Table (°)	Correction Factors (dB)	(dBµV/m)		Limit (dBµV/m)		Margin (dB)
				Peak	Average	Peak	Ave.	
2308.31	1.00	331	2.86	59.87	51.69	74.00	53.96	-2.27
2390.99	1.00	154	3.14	54.16	---	74.00	53.96	0.20
4176.66	1.00	212	1.86	38.30	---	74.00	53.96	-15.66
4923.90	1.00	195	4.12	55.40	51.39	74.00	53.96	-2.57
7388.82	1.00	35	10.42	48.52	---	74.00	53.96	-5.44
9849.79	1.00	93	11.93	49.71	---	74.00	53.96	-4.25

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 in §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		FCC Class B (3m)		
Frequency (MHz)	Ant. P.	Ant. H. (m)	Table (°)	Corrected Factors (dB)	(dBμV/m)		Limit (dBμV/m)		Margin (dB)
					Peak	Average	Peak	Ave.	
2386.06	Hor	1.00	105	3.12	48.46	---	74.00	53.96	-5.50
2390.07	Hor	1.00	210	3.14	44.97	---	74.00	53.96	-8.99
2386.01	Ver	1.00	87	3.12	54.62	---	74.00	53.96	0.66
2390.07	Ver	1.00	21	3.14	49.30	---	74.00	53.96	-4.66

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		FCC Class B (3m)		
Frequency (MHz)	Ant. P.	Ant. H. (m)	Table (°)	Corrected Factors (dB)	(dBμV/m)		Limit (dBμV/m)		Margin (dB)
					Peak	Average	Peak	Ave.	
2483.50	Hor	1.00	161	3.45	43.95	---	74.00	53.96	-10.01
2487.23	Hor	1.00	146	3.46	44.29	---	74.00	53.96	-9.67
2500.01	Hor	1.00	125	3.50	38.17	---	74.00	53.96	-15.79
2524.39	Hor	1.00	147	3.53	41.20	---	74.00	53.96	-12.76
2483.50	Ver	1.00	224	3.45	49.78	---	74.00	53.96	-4.18
2487.35	Ver	1.00	124	3.46	50.12	---	74.00	53.96	-3.84
2500.01	Ver	1.00	134	3.50	41.83	---	74.00	53.96	-12.13
2521.01	Ver	1.00	247	3.53	44.86	---	74.00	53.96	-9.10

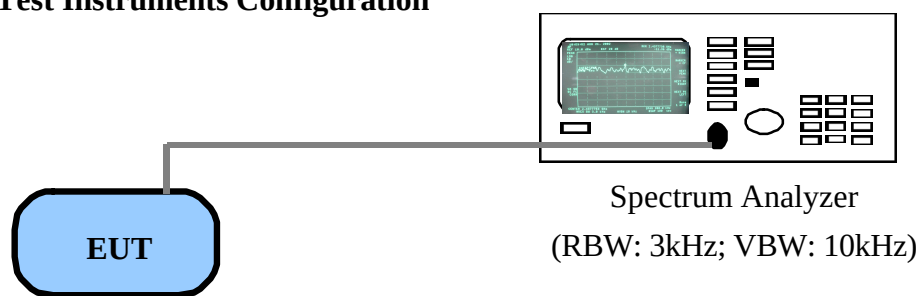
IX. Section 15.247(d): Power Spectral Density

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	MS2665C	ANRITUS	6200175476	0911/02	09/11/03

9.4 Test Result of Power spectral density

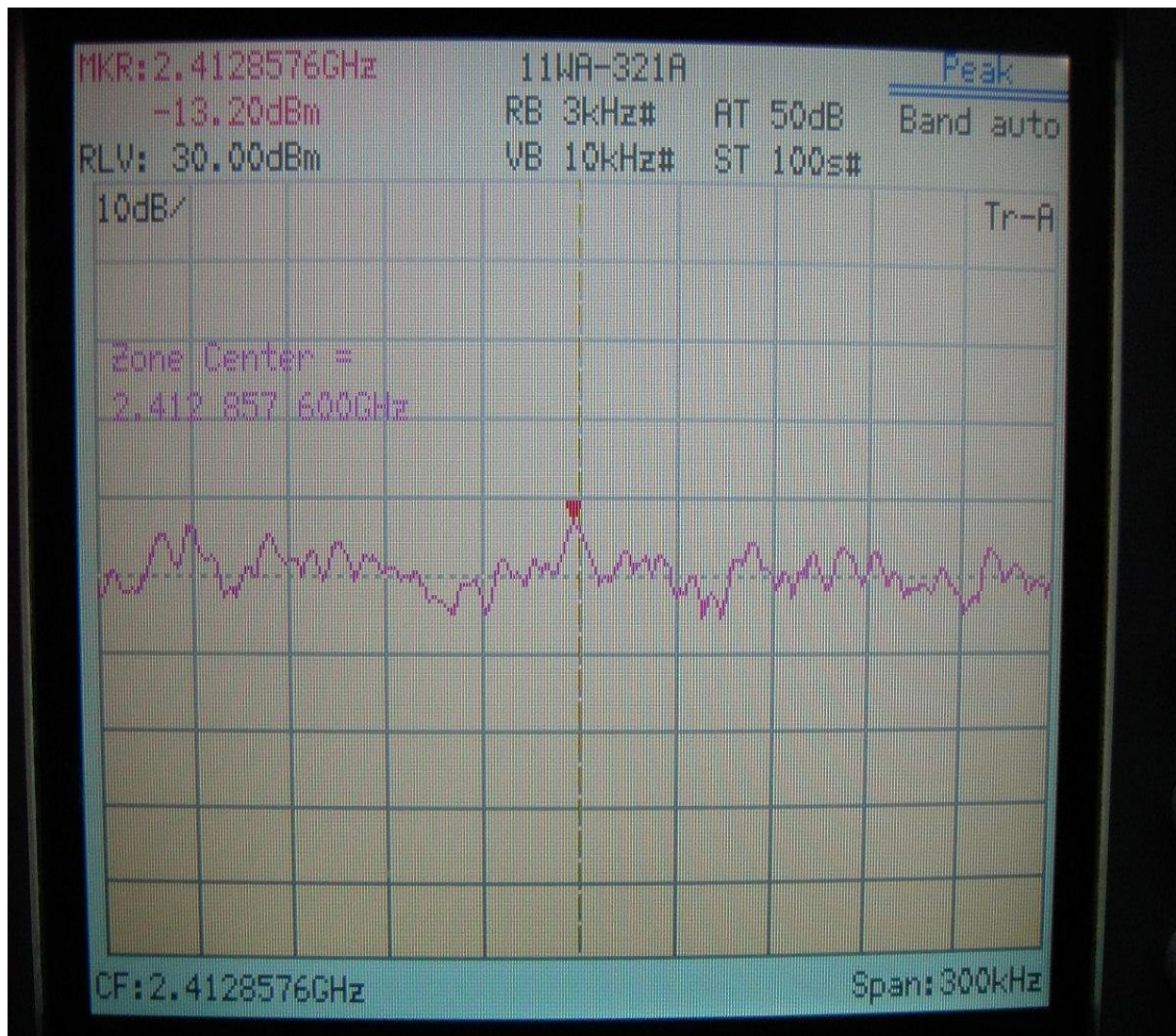
The following table shows a summary of the test results of the Power Spectral Density.

<i>Channel</i>	<i>Frequency (GHz)</i>	<i>Ppr (dBm)</i>	<i>Cable Loss (dB)</i>	<i>Ppq (dBm)</i>	<i>Limit (dB)</i>	<i>Margin (dB)</i>
CH 01	2.412	-13.20	0.7	-12.50	8.00	-20.50
CH 06	2.437	-13.95	0.7	-13.25	8.00	-21.25
CH 11	2.461	-14.85	0.7	-14.15	8.00	-22.15

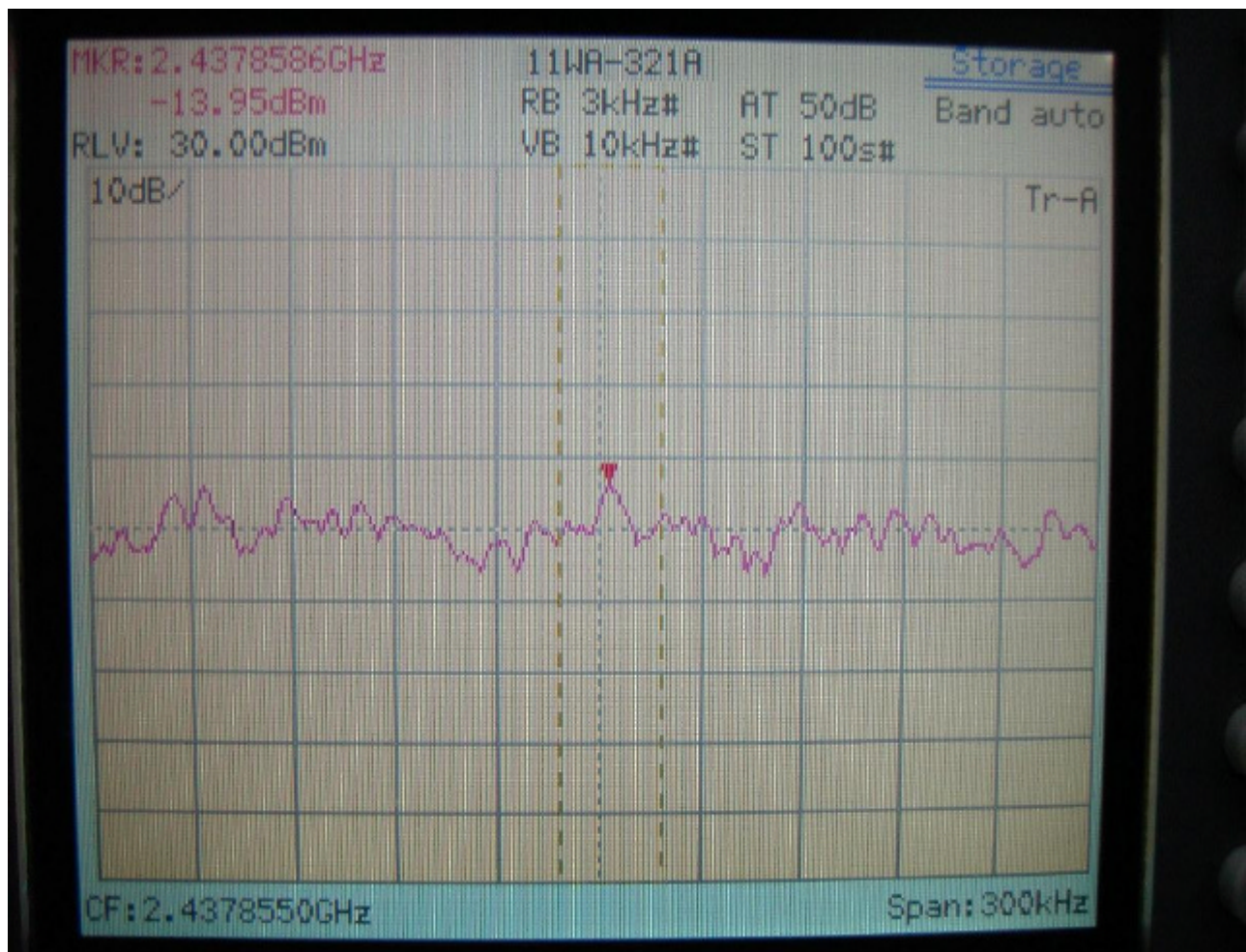
Note:

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



Channel 06



Channel 11

