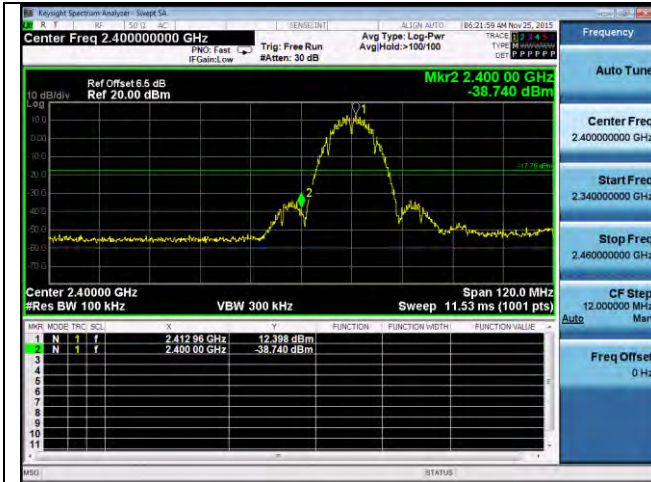
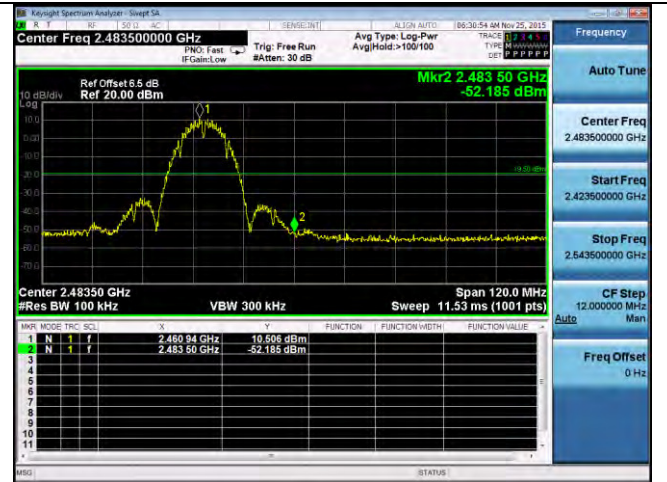


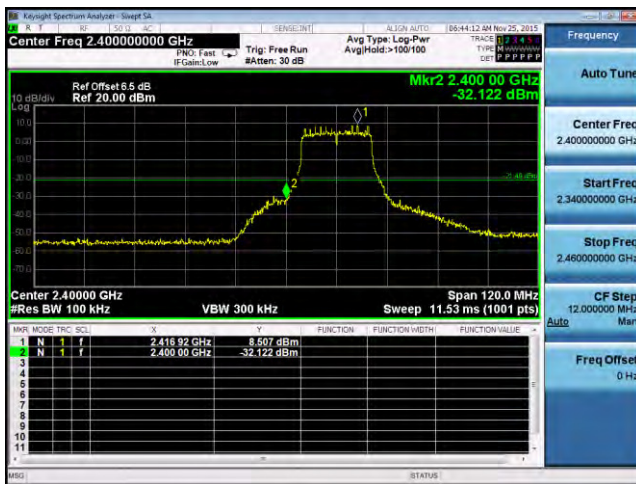
**Test Plots (Worst case of 4 chains)**



**Band Edge-2.4G-802.11b Low**



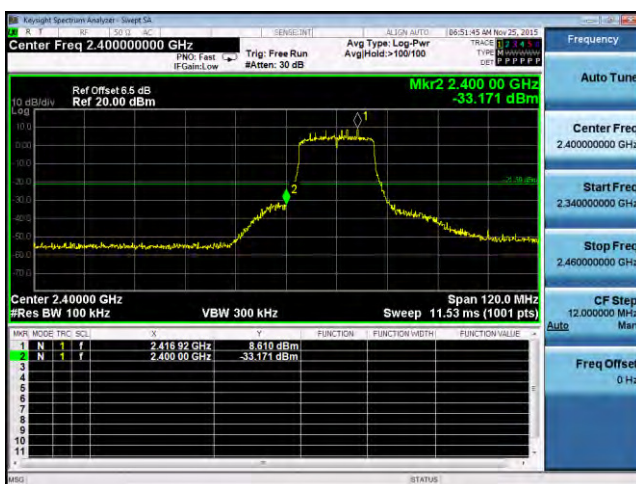
**Band Edge-2.4G-802.11b High**



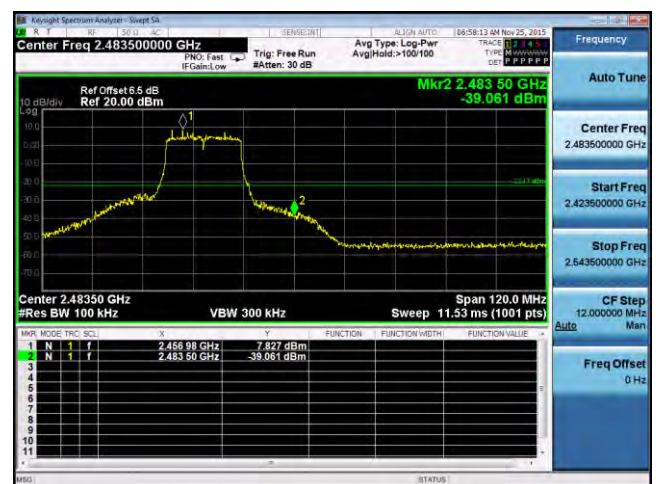
**Band Edge-2.4G-802.11g Low**



**Band Edge-2.4G-802.11g High**



**Band Edge-2.4G-802.11n20 Low**



**Band Edge-2.4G-802.11n20 High**



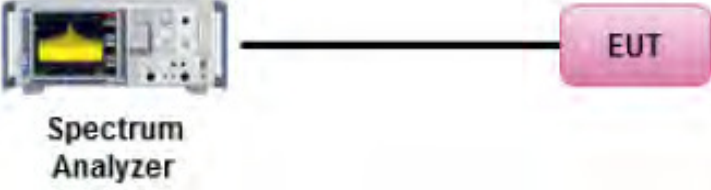
Band Edge-2.4G-802.11n40 Low



Band Edge-2.4G-802.11n40 High

## 10.5 Power Spectral Density

### Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.247(e) RSS247 (5.2.2)	e)	DSSS: ≤8dBm/3KHz	<input checked="" type="checkbox"/>
	f)	DSSS in hybrid sys with FH turned off: ≤8dBm/3KHz	<input type="checkbox"/>
Test Setup			
Test Procedure	<p>558074 D01 DTS Meas Guidance v03r04, 10.3 Method AVGPSD-1</p> <p><u>Peak spectral density measurement procedure</u></p> <ul style="list-style-type: none"> <li>- Set analyzer center frequency to DTS channel center frequency.</li> <li>- Set the span to 1.5 times the DTS bandwidth.</li> <li>- Set the RBW to: <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>.</li> <li>- Set the VBW <math>\geq 3 \times \text{RBW}</math>.</li> <li>- Detector = RMS</li> <li>- Sweep time = auto couple.</li> <li>- Trace mode = Trace average over 100 traces</li> <li>- Allow trace to fully stabilize.</li> <li>- Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.</li> </ul>		
Test Date	11/20/2015 – 12/03/2015	Environmental condition	Temperature 22°C Relative Humidity 46% Atmospheric Pressure 1020mbar
Remark	Per KDB 662911 D01 Multiple Transmitter Output v02r01, the direction gain for horizontal polarization and vertical polarization is calculated separately. For 2.4GHz band, peak antenna gain = 2.5 dBi, directional gain = 5.5 dB. Highest of total directional gain is 5.5 dBi. The power limit and PSD limit will be reduced by amount of 0 dB.		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data     Yes                       N/A

Test Plot     Yes (See below)             N/A

**PSD measurement results**

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/3KHz)					Limit (dBm/3KHz)	Result
				Chain0	Chain1	Chain2	Chain4	Combined		
PSD	802.11b	2412	Low	-4.63	-4.45	-5.61	-4.45	1.26	≤8	Pass
		2437	Mid	-5.93	-3.81	-4.90	-4.88	1.21	≤8	Pass
		2462	High	-7.38	-7.19	-6.85	-5.74	-0.72	≤8	Pass
	802.11g	2412	Low	-6.83	-7.93	-8.76	-7.69	-1.73	≤8	Pass
		2437	Mid	-7.58	-7.47	-8.12	-7.44	-1.62	≤8	Pass
		2462	High	-7.36	-7.54	-8.77	-6.74	-1.52	≤8	Pass
	802.11n-20M	2412	Low	-8.38	-7.78	-8.58	-8.61	-2.30	≤8	Pass
		2437	Mid	-8.24	-7.97	-8.71	-8.30	-2.28	≤8	Pass
		2462	High	-8.03	-5.29	-8.28	-7.43	-1.07	≤8	Pass
	802.11n-40M	2422	Low	-9.60	-8.31	-8.62	-9.60	-2.97	≤8	Pass
		2437	Mid	-7.57	-9.40	-9.88	-8.54	-2.74	≤8	Pass
		2452	High	-8.50	-8.17	-8.78	-7.05	-2.05	≤8	Pass



**Test Plots**



**PSD-2.4G-802.11b Low-chain1**



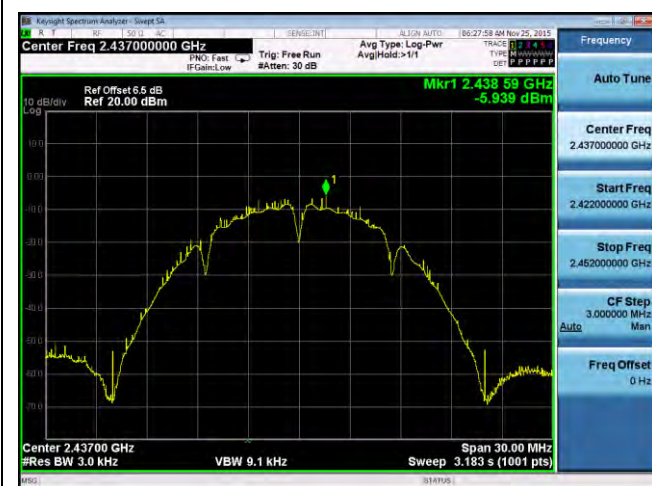
**PSD-2.4G-802.11b Low-chain2**



**PSD-2.4G-802.11b Low-chain3**



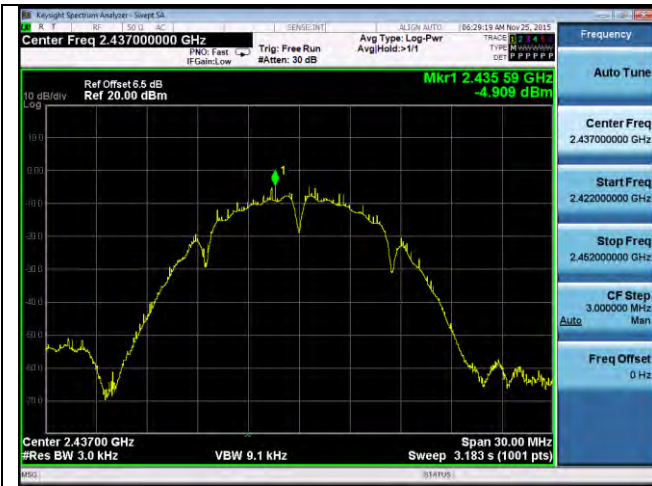
**PSD-2.4G-802.11b Low-chain4**



**PSD-2.4G-802.11b Mid-chain1**



**PSD-2.4G-802.11b Mid-chain2**



PSD-2.4G-802.11b Mid-chain3



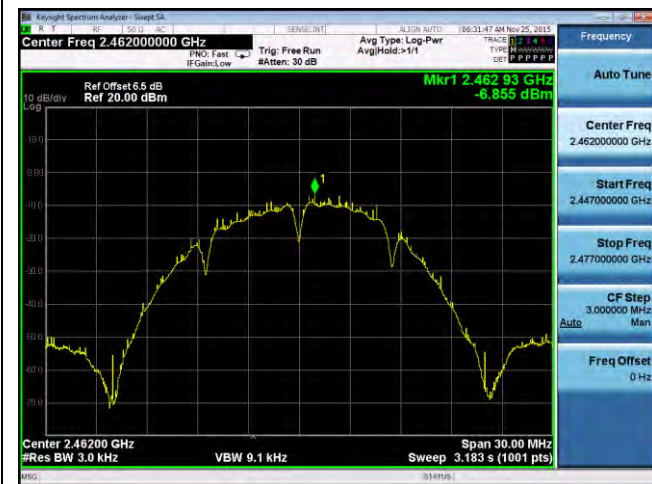
PSD-2.4G-802.11b Mid-chain4



PSD-2.4G-802.11b High-chain1



PSD-2.4G-802.11b High-chain2

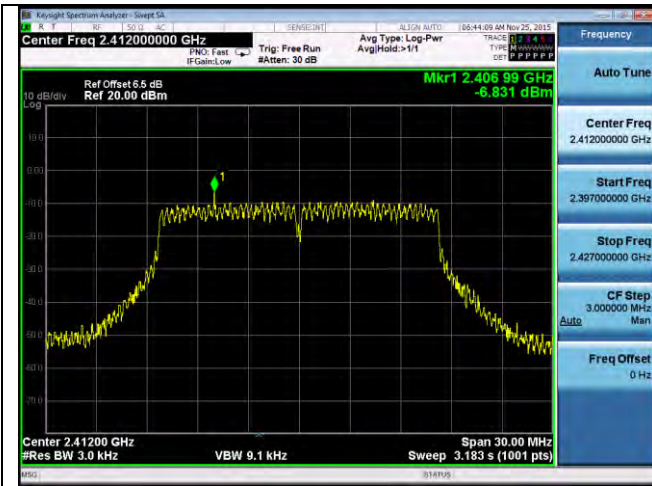


PSD-2.4G-802.11b High-chain3

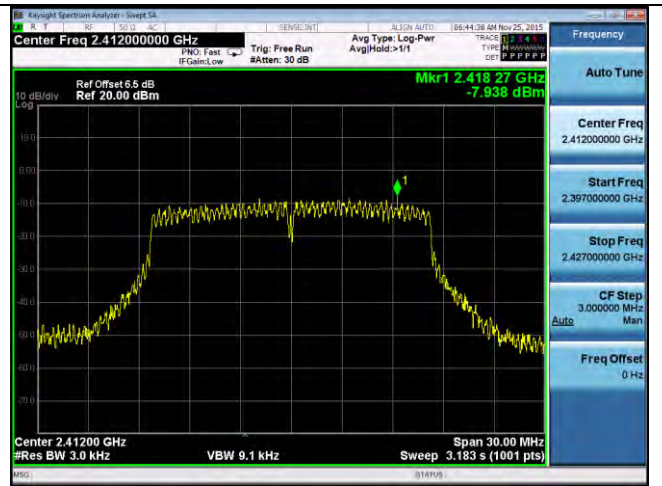


PSD-2.4G-802.11b High-chain4

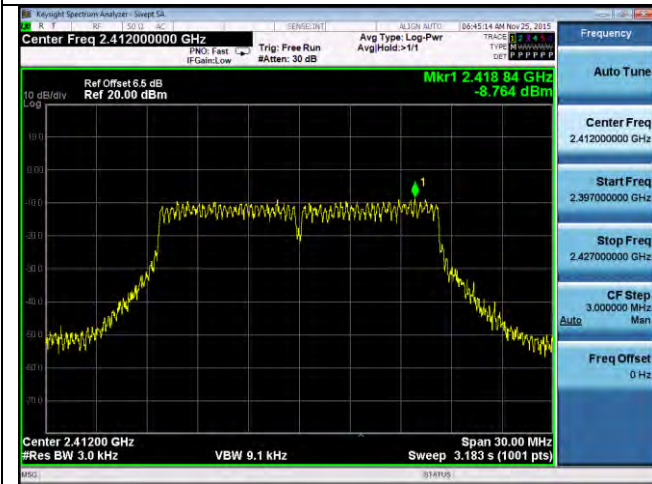




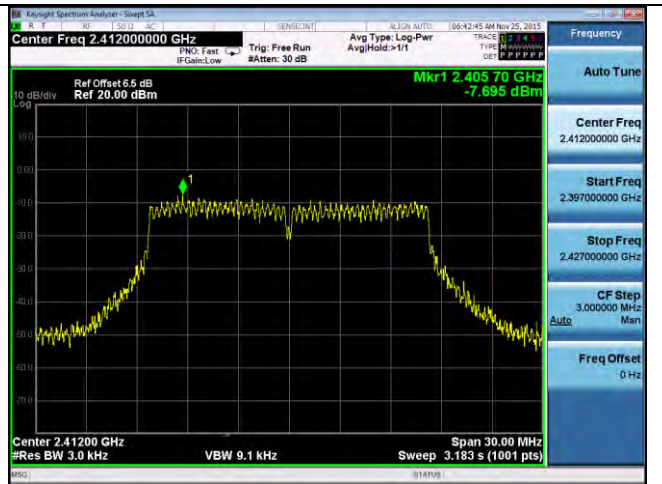
PSD-2.4G-802.11g Low-chain1



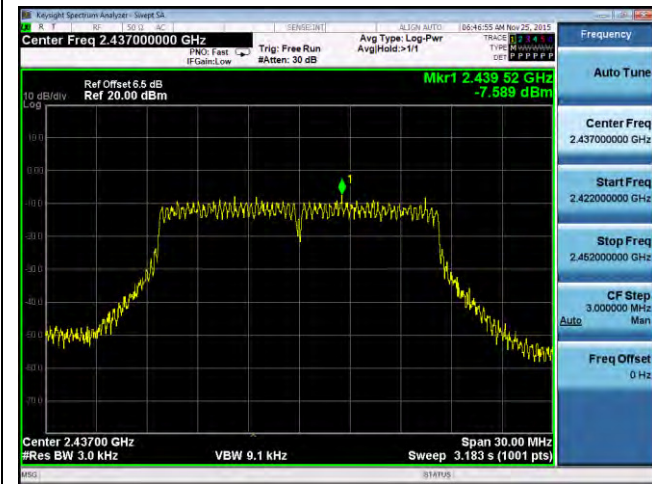
PSD-2.4G-802.11g Low-chain2



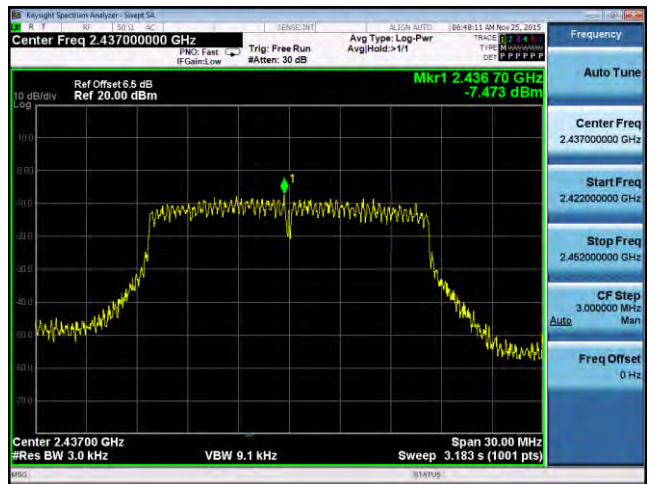
PSD-2.4G-802.11g Low-chain3



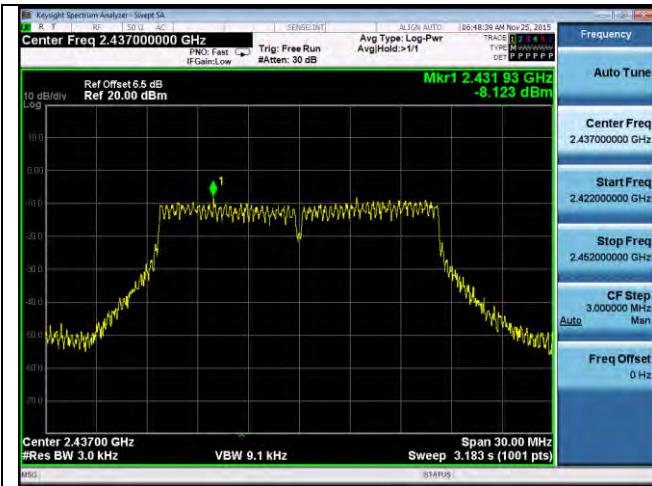
PSD-2.4G-802.11g Low-chain4



PSD-2.4G-802.11g Mid-chain1



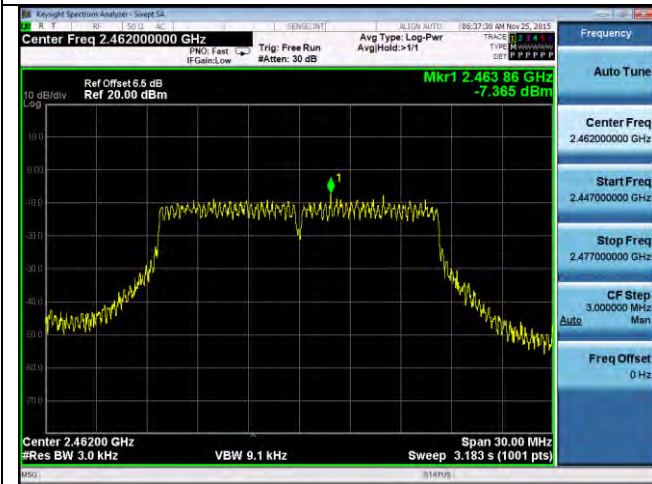
PSD-2.4G-802.11g Mid-chain2



PSD-2.4G-802.11g Mid-chain3



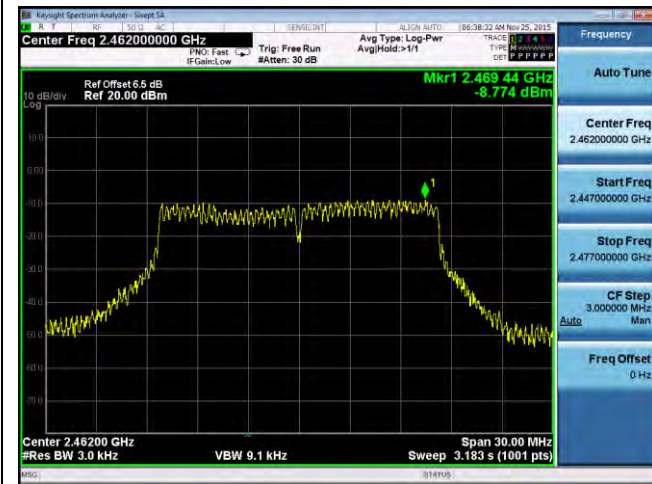
PSD-2.4G-802.11g Mid-chain4



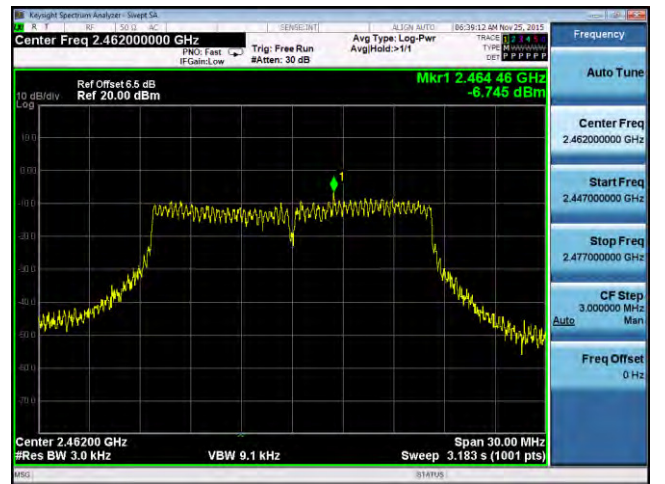
PSD-2.4G-802.11g High-chain1



PSD-2.4G-802.11g High-chain2

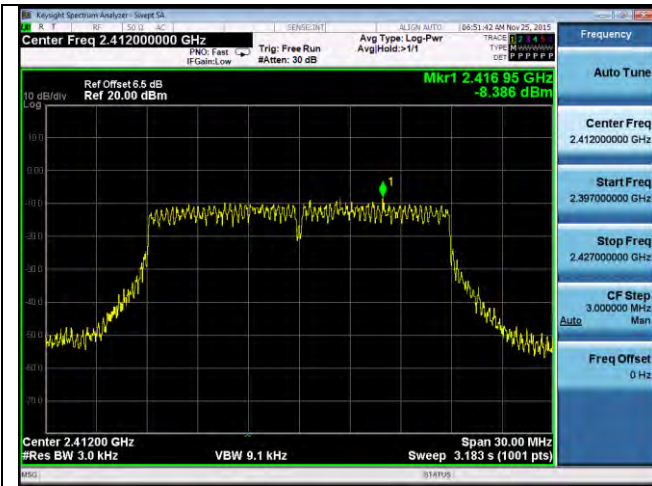


PSD-2.4G-802.11g High-chain3

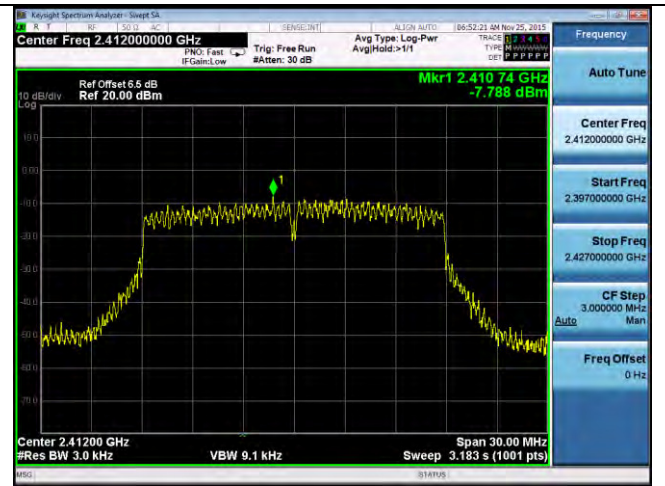


PSD-2.4G-802.11g High-chain4

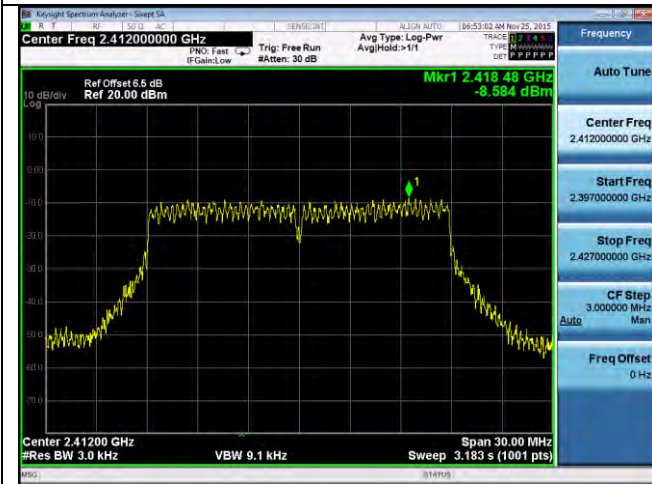




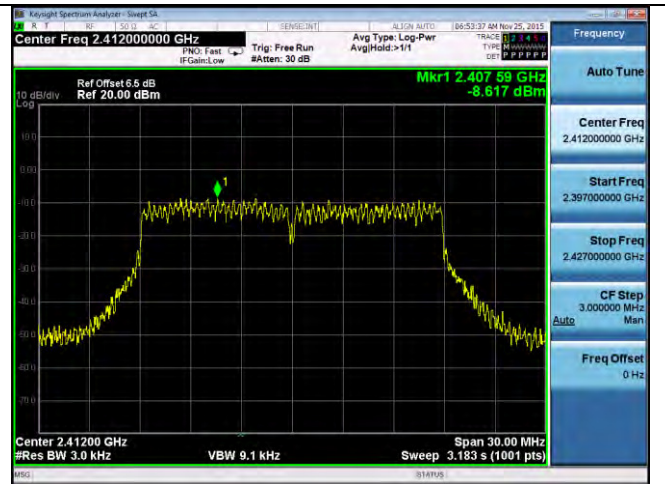
PSD-2.4G-802.11n-20M Low-chain1



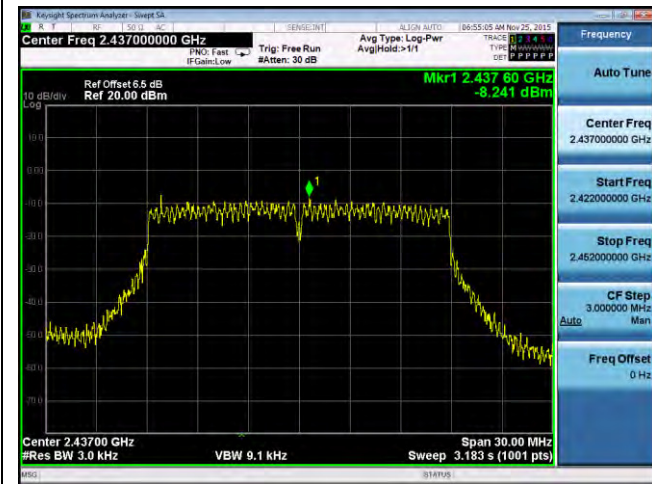
PSD-2.4G-802.11n-20M Low-chain2



PSD-2.4G-802.11n-20M Low-chain3



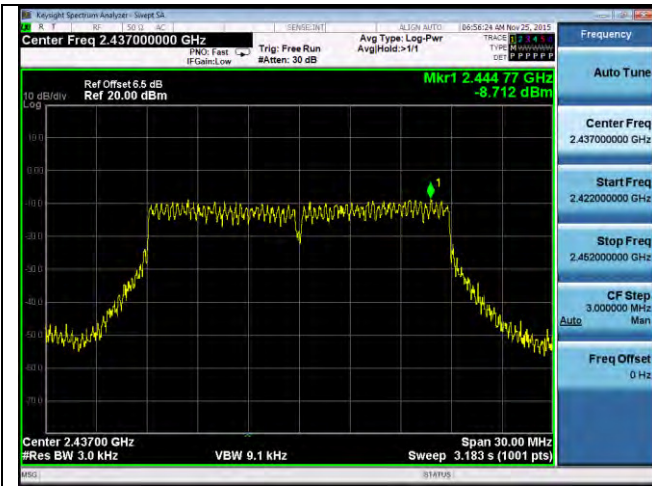
PSD-2.4G-802.11n-20M Low-chain4



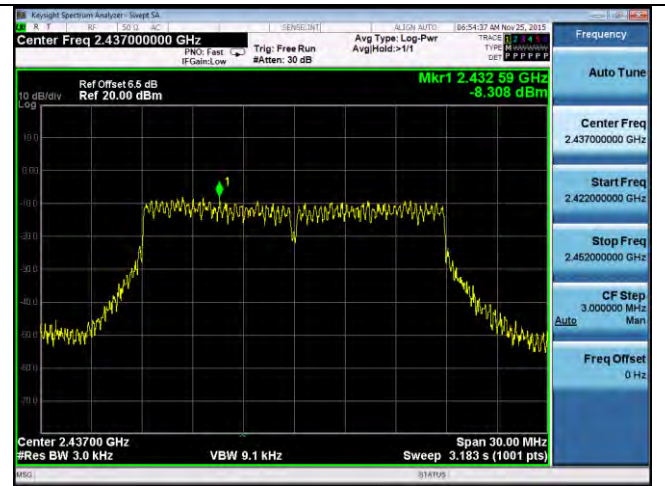
PSD-2.4G-802.11n-20M Mid-chain1



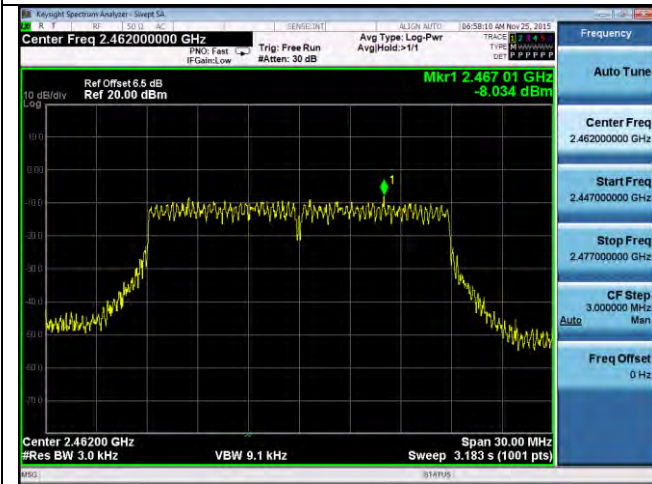
PSD-2.4G-802.11n-20M Mid-chain2



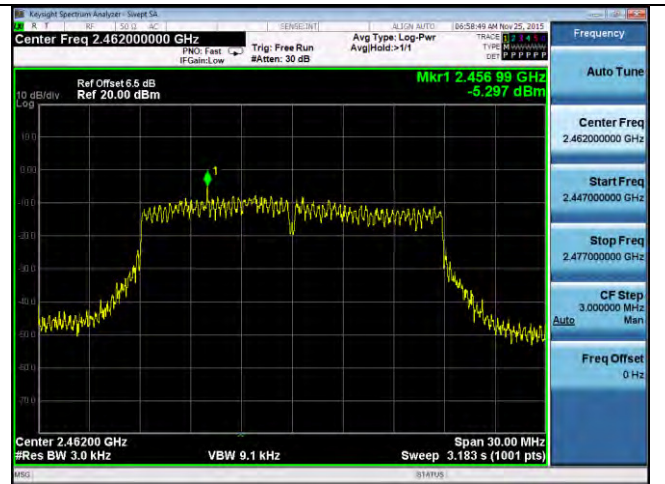
PSD-2.4G-802.11n-20M Mid-chain3



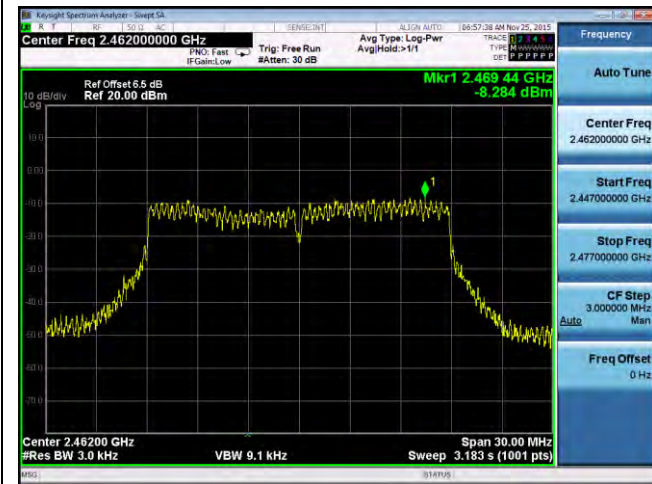
PSD-2.4G-802.11n-20M Mid-chain4



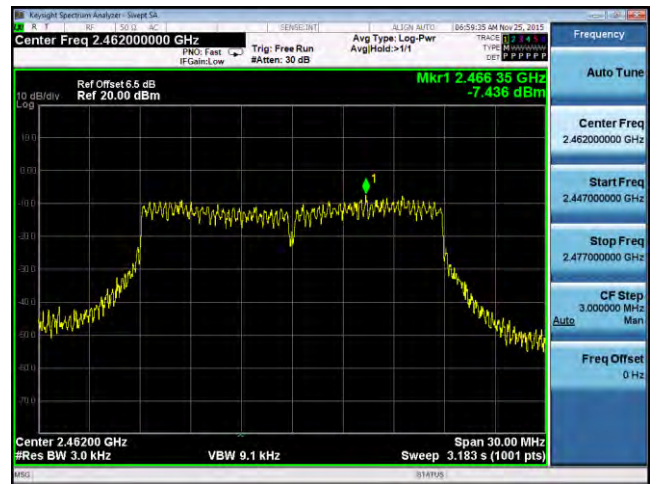
PSD-2.4G-802.11n-20M High-chain1



PSD-2.4G-802.11n-20M High-chain2

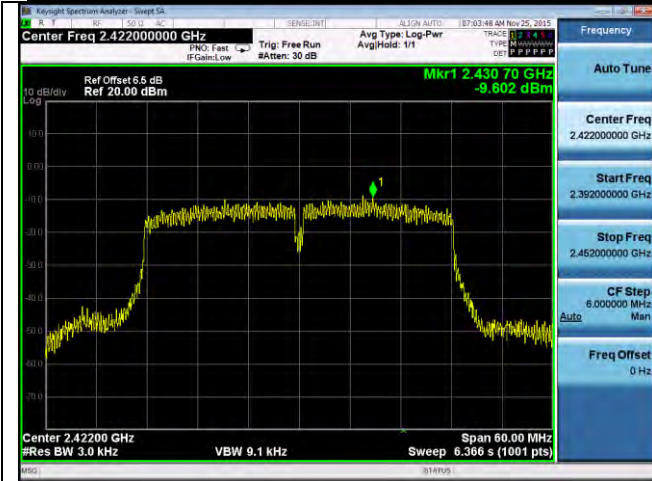


PSD-2.4G-802.11n-20M High-chain3

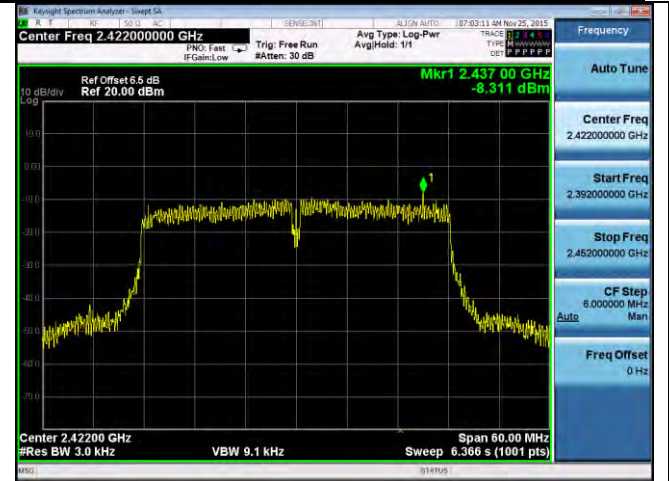


PSD-2.4G-802.11n-20M High-chain4

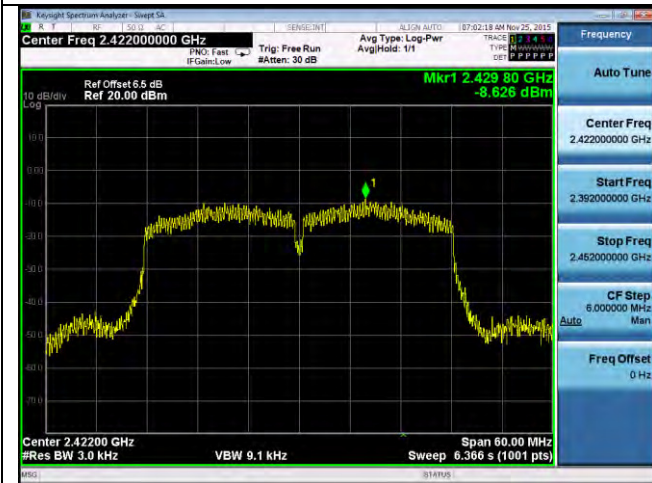




PSD-2.4G-802.11n-40M Low-chain1



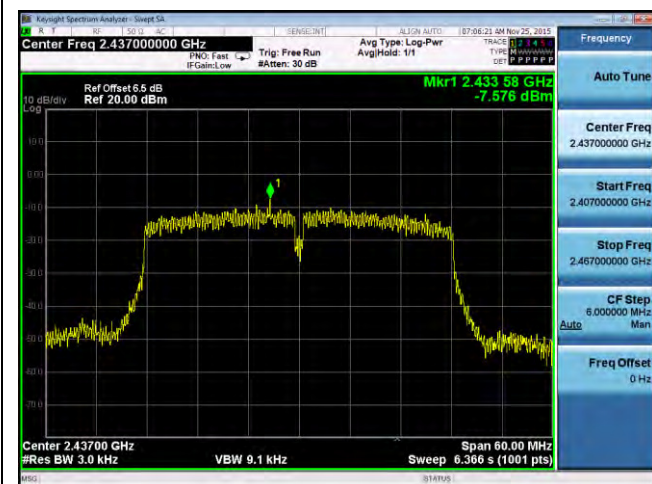
PSD-2.4G-802.11n-40M Low-chain2



PSD-2.4G-802.11n-40M Low-chain3



PSD-2.4G-802.11n-40M Low-chain4



PSD-2.4G-802.11n-40M Mid-chain1



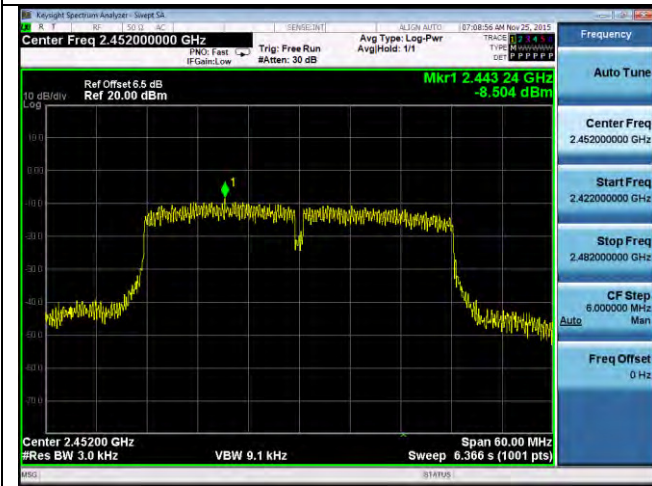
PSD-2.4G-802.11n-40M Mid-chain2



PSD-2.4G-802.11n-40M Mid-chain3



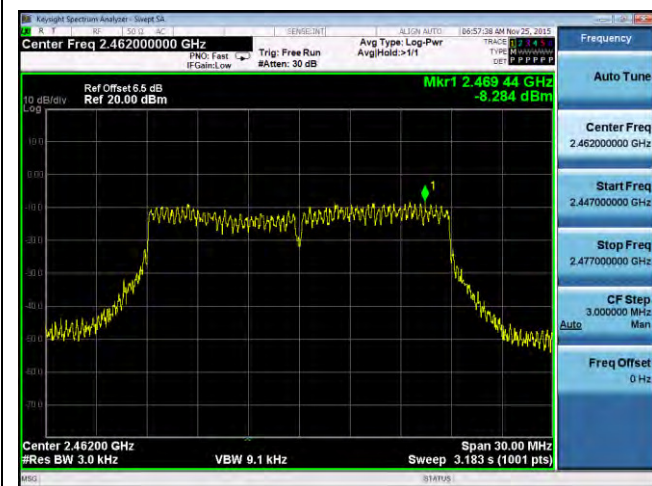
PSD-2.4G-802.11n-40M Mid-chain4



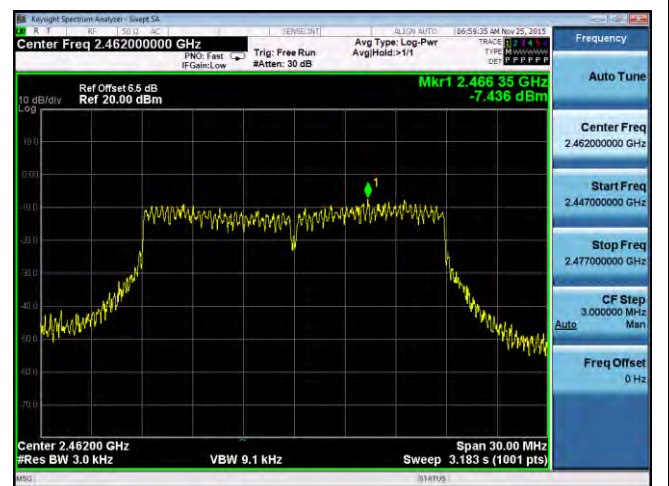
PSD-2.4G-802.11n-40M High-chain1



PSD-2.4G-802.11n-40M High-chain2



PSD-2.4G-802.11n-40M High-chain3



PSD-2.4G-802.11n-40M High-chain4



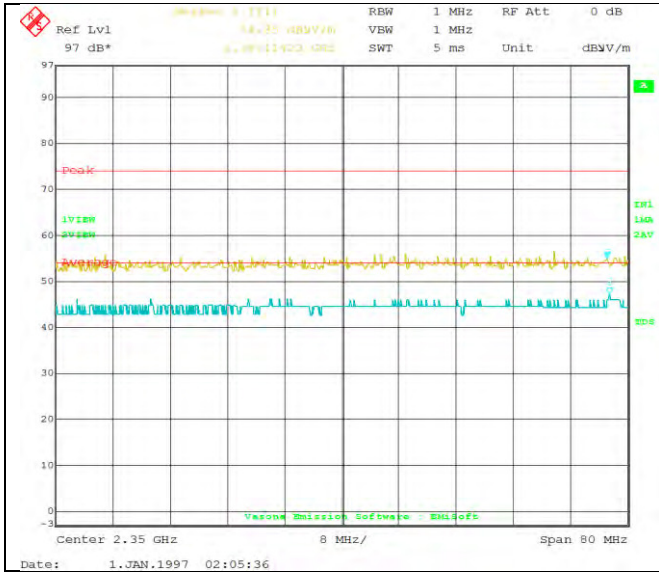
### 10.6 Radiated Spurious Emissions in restricted band

**Requirement(s):**

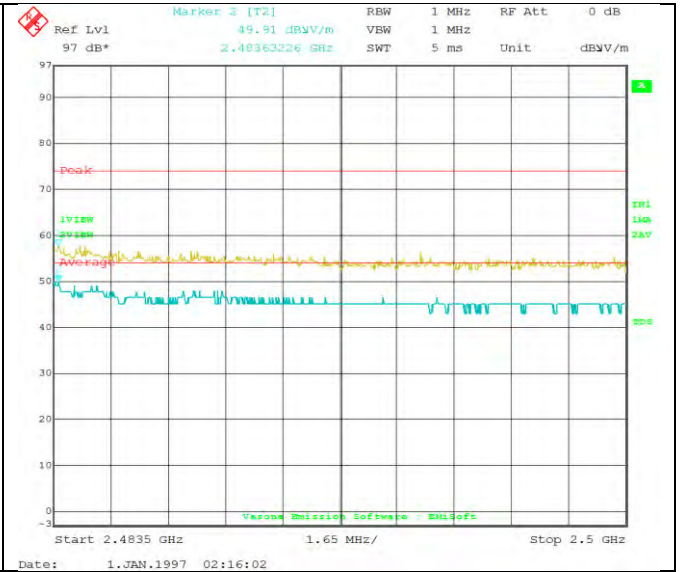
Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(A8.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required  <input type="checkbox"/> 20 dB down <input checked="" type="checkbox"/> 30 dB down	<input checked="" type="checkbox"/>
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	<input checked="" type="checkbox"/>
Test Setup			
Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>An average measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case. Radiated measurement was measured with antenna port terminated, there isn't outstanding emission found at the edge of restricted frequency, within x dB margin		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

**Test Data**     Yes (See below)     N/A  
**Test Plot**     Yes (See below)     N/A

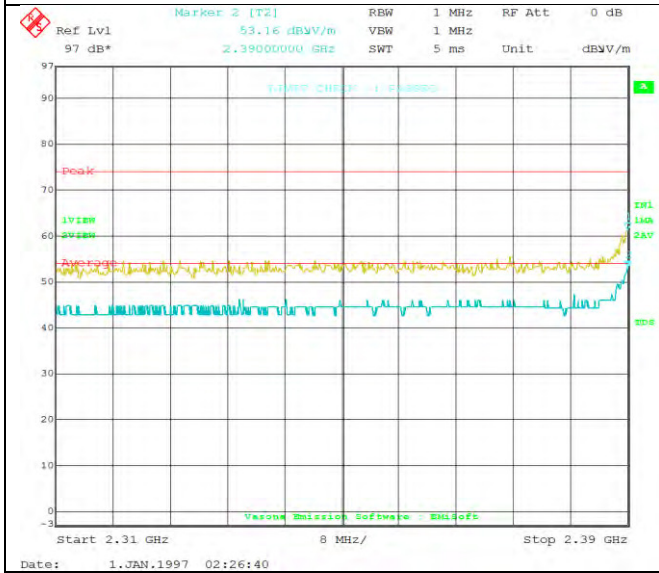
**Restricted Band Measurement Plots:**



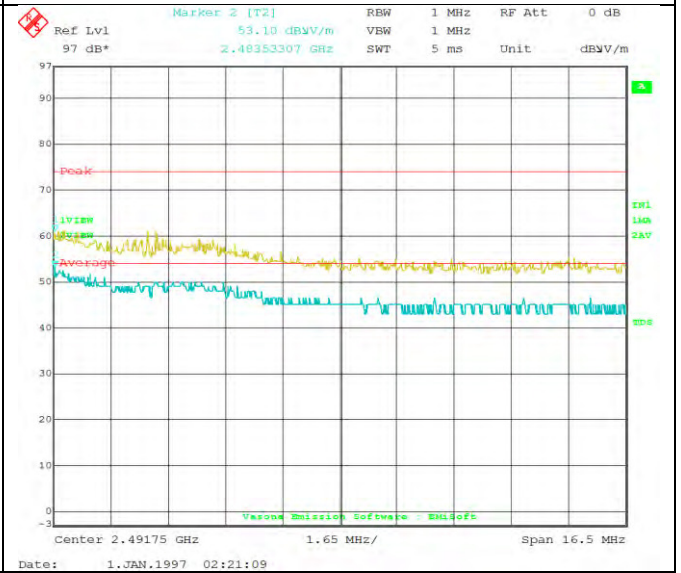
**802.11b 2412M-Restricted Band 2310-2390MHz**



**802.11b 2462M-Restricted Band 2483.5-2500MHz**

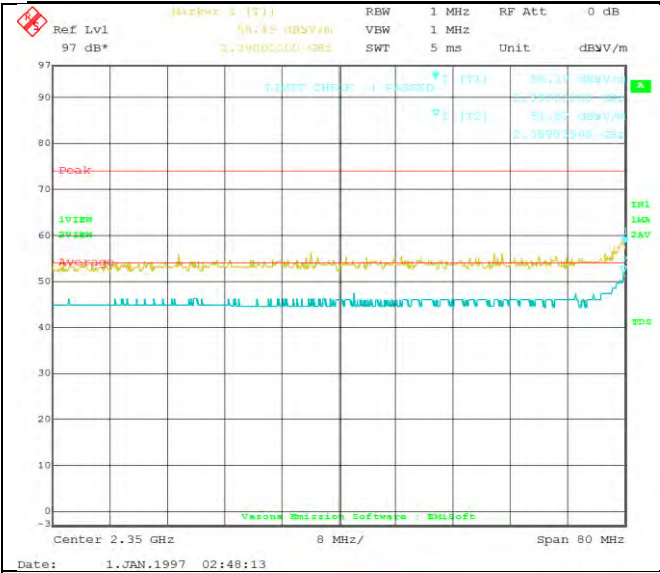


**802.11g 2412M-Restricted Band 2310-2390MHz**

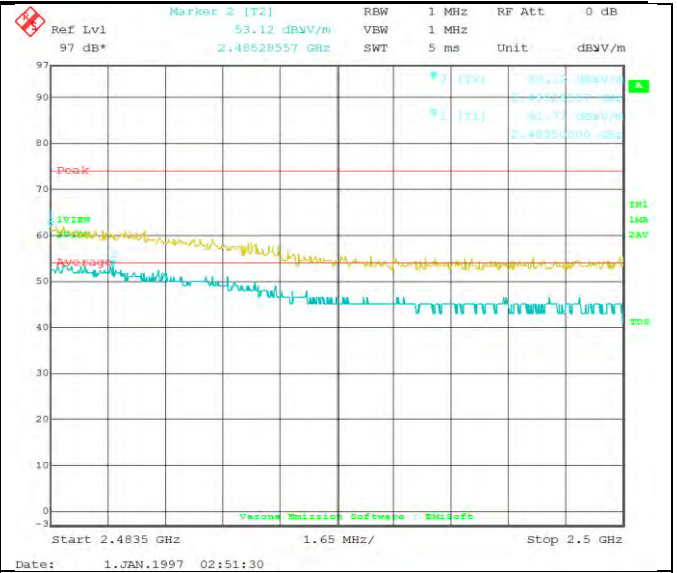


**802.11g 2462M-Restricted Band 2483.5-2500MHz**

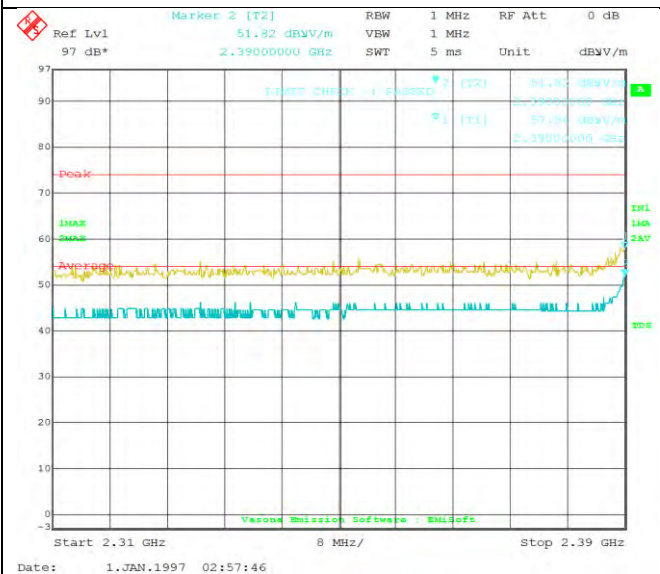




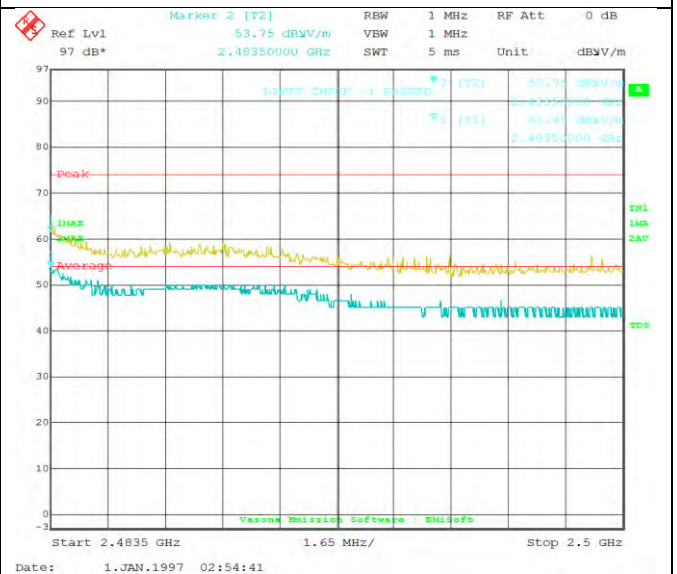
**802.11n20 2412M-Restricted Band 2310-2390MHz**



**802.11n20 2462M-Restricted Band 2483.5-2500MHz**



**802.11n40 2422M-Restricted Band 2310-2390MHz**



**802.11n40 2452M-Restricted Band 2483.5-2500MHz**

## 10.7 Radiated Spurious Emissions below 1GHz

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.247(d) RSS247 (5.5)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (uV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
Frequency range (MHz)	Field Strength (uV/m)												
30 – 88	100												
88 – 216	150												
216 960	200												
Above 960	500												
Test Setup													
Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>A Quasi-peak measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>												
Remark	The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.												
Result	☒ Pass      ☐ Fail												

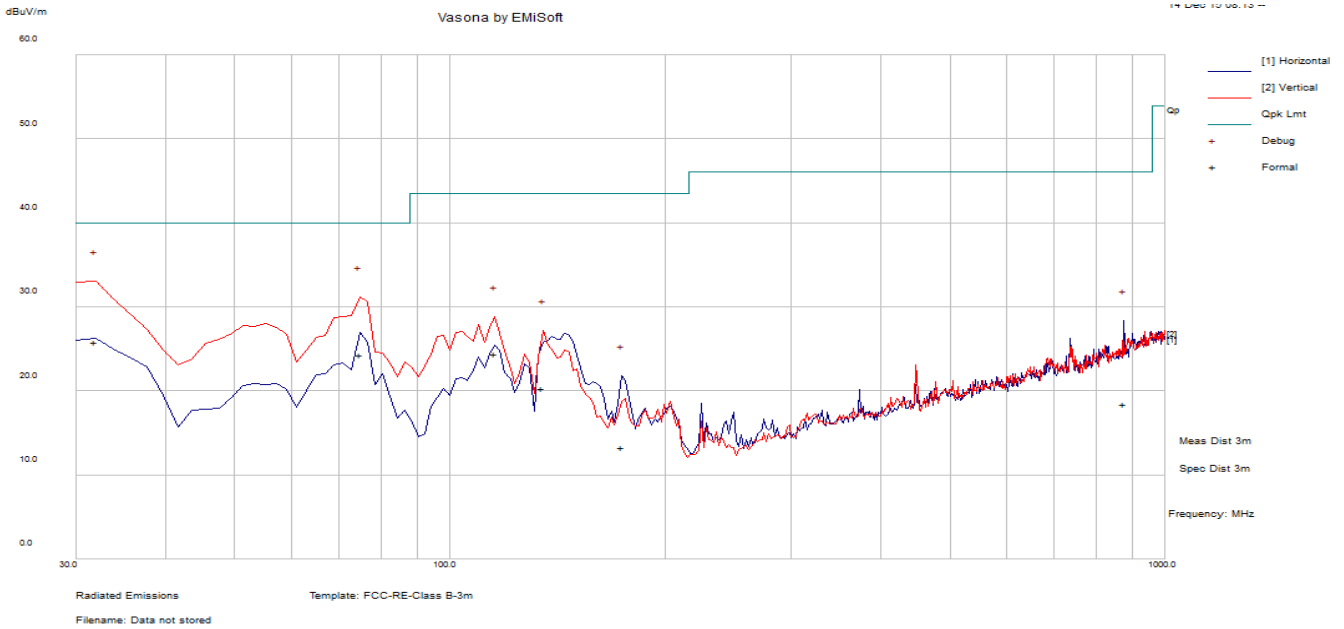
**Test Data**    ☒ Yes (See below)      ☐ N/A

**Test Plot**    ☒ Yes (See below)      ☐ N/A



### Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25			
	Humidity (%)	45			
	Atmospheric (mbar):	1011			
Mains Power:	120VAC, 60Hz				
Tested by:	Gary Chou				
Test Date:	11/29/2015				
Remarks:	N/A				



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
31.85	41.1	0.82	-16.09	25.82	Quasi Max	V	104	148	40	-14.18	Pass
74.94	53.25	1.37	-30.35	24.27	Quasi Max	V	122	220	40	-15.73	Pass
115.58	47.83	1.76	-25.13	24.47	Quasi Max	V	110	175	43.52	-19.05	Pass
134.85	43.29	1.92	-24.88	20.32	Quasi Max	V	133	213	43.52	-23.2	Pass
875.37	29.55	5.33	-16.39	18.49	Quasi Max	H	197	344	46.02	-27.53	Pass
173.75	38.4	2.24	-27.37	13.26	Quasi Max	H	129	67	43.52	-30.26	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

### 10.8 Radiated Spurious Emissions above 1GHz

**Requirement(s):**

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(A8.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required  <input type="checkbox"/> 20 dB down <input checked="" type="checkbox"/> 30 dB down	<input checked="" type="checkbox"/>
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	<input checked="" type="checkbox"/>
Test Setup			
Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>An average measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case. There isn't outstanding emission found at the edge of restricted frequency.		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

**Test Data**     Yes (See below)     N/A

**Test Plot**     Yes (See below)     N/A



## Radiated Emission Test Results (Above 1GHz)

### 1GHz-25GHz – 802.11b – 2412MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4061.33	36.76	8.66	15.48	60.9	Peak Max	H	115	174	74	-13.1	Pass
4824.01	38.25	10.37	13.22	61.84	Peak Max	V	194	327	74	-12.16	Pass
6131.67	37.26	10.65	14.27	62.18	Peak Max	V	110	356	74	-11.82	Pass
4061.33	25.52	8.66	15.48	49.65	Average Max	H	115	174	54	-4.35	Pass
4824.01	29.21	10.37	13.22	52.8	Average Max	V	194	327	54	-1.2	Pass
6131.67	24.74	10.65	14.27	49.66	Average Max	V	110	356	54	-4.34	Pass

### 1GHz-25GHz- 802.11b - 2437MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4090.88	37.25	8.73	15.35	61.33	Peak Max	H	122	235	74	-12.67	Pass
6204.43	37.59	10.74	14.1	62.42	Peak Max	V	189	321	74	-11.58	Pass
1022.24	43.59	3.39	13.16	60.14	Peak Max	H	157	197	74	-13.87	Pass
4874.18	37.87	10.47	13.16	61.49	Peak Max	H	138	121	74	-12.51	Pass
4090.88	25.64	8.73	15.35	49.72	Average Max	H	122	235	54	-4.28	Pass
6204.43	24.5	10.74	14.1	49.33	Average Max	V	189	321	54	-4.67	Pass
1022.24	31.66	3.39	13.16	48.21	Average Max	H	157	197	54	-5.79	Pass
4874.18	25.1	10.47	13.16	48.73	Average Max	H	138	121	54	-5.27	Pass

### 1GHz-25GHz- 802.11b – 2462MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4924.65	35.71	10.57	13.09	59.37	Peak Max	H	162	339	74	-14.63	Pass
6246.77	36.36	10.79	14	61.14	Peak Max	V	164	71	74	-12.86	Pass
1041.99	44.09	3.42	13.13	60.64	Peak Max	V	159	143	74	-13.36	Pass
4924.65	24.12	10.57	13.09	47.78	Average Max	H	162	339	54	-6.22	Pass
6246.77	24.5	10.79	14	49.29	Average Max	V	164	71	54	-4.71	Pass
1041.99	31.42	3.42	13.13	47.97	Average Max	V	159	143	54	-6.03	Pass

**1GHz-25GHz – 802.11g – 2412MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4153.74	37.96	8.89	15.08	61.92	Peak Max	V	149	46	74	-12.08	Pass
6123.11	36.06	10.63	14.29	60.99	Peak Max	H	145	32	74	-13.01	Pass
1083.98	42.62	3.48	13.07	59.17	Peak Max	H	153	54	74	-14.83	Pass
4153.74	25.91	8.89	15.08	49.87	Average Max	V	149	46	54	-4.13	Pass
6123.11	24.65	10.63	14.29	49.58	Average Max	H	145	32	54	-4.42	Pass
1083.98	30.33	3.48	13.07	46.88	Average Max	H	153	54	54	-7.12	Pass

**1GHz-25GHz- 802.11g – 2437MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4874.26	37.16	10.47	13.16	60.79	Peak Max	V	137	215	74	-13.21	Pass
6120.27	36.01	10.63	14.3	60.94	Peak Max	V	232	230	74	-13.06	Pass
1019.45	43.53	3.38	13.17	60.08	Peak Max	V	125	353	74	-13.92	Pass
4874.26	24.79	10.47	13.16	48.41	Average Max	V	137	215	54	-5.59	Pass
6120.27	24.54	10.63	14.3	49.47	Average Max	V	232	230	54	-4.53	Pass
1019.45	31.62	3.38	13.17	48.17	Average Max	V	125	353	54	-5.83	Pass

**1GHz-25GHz- 802.11g - 2462MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6089.93	35.68	10.59	14.37	60.65	Peak Max	V	122	30	74	-13.36	Pass
2092.49	40.93	4.36	14.71	60	Peak Max	V	209	295	74	-14.01	Pass
1052.08	42.48	3.43	13.12	59.03	Peak Max	H	159	335	74	-14.97	Pass
6089.93	24.41	10.59	14.37	49.38	Average Max	V	122	30	54	-4.62	Pass
2092.49	28.46	4.36	14.71	47.53	Average Max	V	209	295	54	-6.47	Pass
1052.08	31.11	3.43	13.12	47.66	Average Max	H	159	335	54	-6.34	Pass



**1GHz-25GHz – 802.11n-20M – 2412MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4187.20	37.99	8.97	14.93	61.89	Peak Max	V	137	76	74	-12.11	Pass
1030.17	42.79	3.4	13.15	59.34	Peak Max	H	153	88	74	-14.66	Pass
6059.37	36.07	10.56	14.45	61.07	Peak Max	H	243	29	74	-12.93	Pass
4187.20	25.61	8.97	14.93	49.51	Average Max	V	137	76	54	-4.49	Pass
1030.17	31.38	3.4	13.15	47.93	Average Max	H	153	88	54	-6.07	Pass
6059.37	24.36	10.56	14.45	49.36	Average Max	H	243	29	54	-4.64	Pass

**1GHz-25GHz- 802.11n-20M - 2437MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4186.84	37.84	8.97	14.94	61.75	Peak Max	V	152	153	74	-12.25	Pass
6058.06	36.25	10.55	14.45	61.25	Peak Max	H	134	247	74	-12.75	Pass
4826.55	35.45	10.37	13.22	59.04	Peak Max	V	176	303	74	-14.96	Pass
4186.84	25.78	8.97	14.94	49.68	Average Max	V	152	153	54	-4.32	Pass
6058.06	24.17	10.55	14.45	49.18	Average Max	H	134	247	54	-4.82	Pass
4826.55	24.56	10.37	13.22	48.15	Average Max	V	176	303	54	-5.85	Pass

**1GHz-25GHz- 802.11n-20M – 2462MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4187.43	36.98	8.97	14.93	60.89	Peak Max	V	233	22	74	-13.12	Pass
6058.21	36.66	10.55	14.45	61.66	Peak Max	H	204	61	74	-12.34	Pass
4826.36	36.37	10.37	13.22	59.96	Peak Max	V	203	148	74	-14.04	Pass
4187.43	25.85	8.97	14.93	49.75	Average Max	V	233	22	54	-4.25	Pass
6058.21	24.88	10.55	14.45	49.88	Average Max	H	204	61	54	-4.12	Pass
4826.36	24.61	10.37	13.22	48.2	Average Max	V	203	148	54	-5.8	Pass

**1GHz-25GHz – 802.11n-40M – 2422MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4293.41	37.88	9.23	14.49	61.6	Peak Max	V	109	312	74	-12.4	Pass
6302.07	36.56	10.85	13.87	61.29	Peak Max	V	213	292	74	-12.71	Pass
4962.57	37.79	10.64	13.05	61.48	Peak Max	V	231	107	74	-12.52	Pass
4293.41	26.63	9.23	14.49	50.34	Average Max	V	109	312	54	-3.66	Pass
6302.07	25.17	10.85	13.87	49.89	Average Max	V	213	292	54	-4.11	Pass
4962.57	25.48	10.64	13.05	49.16	Average Max	V	231	107	54	-4.84	Pass

**1GHz-25GHz- 802.11n-40M – 2437MHz**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4251.06	38.23	9.13	14.66	62.02	Peak Max	V	150	265	74	-11.98	Pass
6121.55	37.31	10.63	14.3	62.24	Peak Max	V	209	2	74	-11.77	Pass
1000.67	43.85	3.35	13.2	60.4	Peak Max	V	246	76	74	-13.6	Pass
4251.06	26.56	9.13	14.66	50.35	Average Max	V	150	265	54	-3.65	Pass
6121.55	25.47	10.63	14.3	50.4	Average Max	V	209	2	54	-3.6	Pass
1000.67	32.04	3.35	13.2	48.59	Average Max	V	246	76	54	-5.42	Pass

**1GHz-25GHz- 802.11n-40M - 2452MHz**

















Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4178.71	38.55	8.95	14.97	62.47	Peak Max	H	145	142	74	-11.53	Pass
6247.78	37.22	10.79	13.99	62	Peak Max	H	183	182	74	-12	Pass
1032.22	42.55	3.4	13.15	59.1	Peak Max	V	232	359	74	-14.9	Pass
4178.71	26.28	8.95	14.97	50.2	Average Max	H	145	142	54	-3.8	Pass
6247.78	25.27	10.79	13.99	50.05	Average Max	H	183	182	54	-3.95	Pass
1032.22	31.61	3.4	13.15	48.16	Average Max	V	232	359	54	-5.84	Pass








## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
<b>Conducted Emissions</b>						
R & S Receiver	ESIB 40	100179	05/23/2015	1 Year	05/23/2016	<input checked="" type="checkbox"/>
CHASE LISN	MN2050B	1018	08/07/2015	1 Year	08/07/2016	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>						
R & S Receiver	ESL6	100178	05/27/2015	1 Year	05/27/2016	<input checked="" type="checkbox"/>
R & S Receiver	ESIB 40	100179	05/23/2015	1 Year	05/23/2016	<input checked="" type="checkbox"/>
ETS-Lingren Loop Antenna	6512	00049120	05/12/2015	1 Year	05/12/2016	<input checked="" type="checkbox"/>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/12/2015	1 Year	08/12/2016	<input checked="" type="checkbox"/>
3 Meters SAC	3M	N/A	08/08/2015	1 Year	08/08/2016	<input checked="" type="checkbox"/>
10 Meters SAC	10M	N/A	09/05/2015	1 Year	09/05/2016	<input checked="" type="checkbox"/>
<b>RF Conducted Measurement</b>						
Spectrum Analyzer	N9010A	10SL0219	08/20/2015	1 Year	08/20/2016	<input checked="" type="checkbox"/>
R & S Receiver	ESIB 40	100179	05/23/2015	1 Year	05/23/2016	<input checked="" type="checkbox"/>
ETS-Lingren USB RF Power Sensor	7002-006	10SL0190	09/03/2015	1 Year	09/03/2016	<input checked="" type="checkbox"/>



## Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		<a href="#">A1</a> , <a href="#">A2</a> , <a href="#">A3</a> , <a href="#">A4</a> , <a href="#">B1</a> , <a href="#">B2</a> , <a href="#">B3</a> , <a href="#">B4</a> , C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		<b>Radio &amp; Telecommunications Terminal Equipment:</b> EN45001 – EN ISO/IEC 17025
		<b>Electromagnetic Compatibility:</b> EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	 	<a href="#">Phase I</a> , <a href="#">Phase II</a>
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		<b>(Phase II)</b> OFCA Foreign Certification Body for Radio and Telecom
		<b>(Phase I)</b> Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		<b>Radio:</b> Scope A – All Radio Standard Specification in Category I
		<b>Telecom:</b> CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		<p><b>Radio:</b> A1. Terminal equipment for purpose of calling</p> <p><b>Telecom:</b> B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law</p>
Korea CAB Accreditation		<p><b>EMI:</b> KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI</p> <p><b>EMS:</b> KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS</p>
		<p><b>Radio:</b> RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68</p> <p><b>Telecom:</b> President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4</p>
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		<p>R-3083: Radiation 3 meter site</p> <p>C-3421: Main Ports Conducted Interference Measurement</p> <p>T-1597: Telecommunication Ports Conducted Interference Measurement</p>
Australia CAB Recognition		<p><b>EMC:</b> AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4</p>
		<p><b>Radio communications:</b> AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771</p> <p><b>Telecommunications:</b> AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1</p>
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2