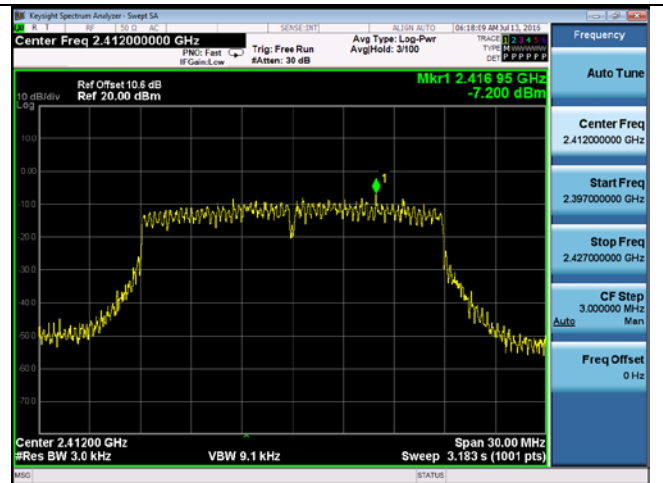
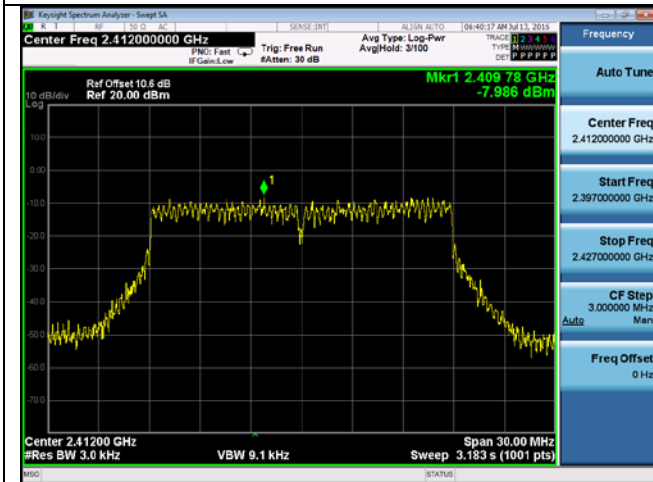


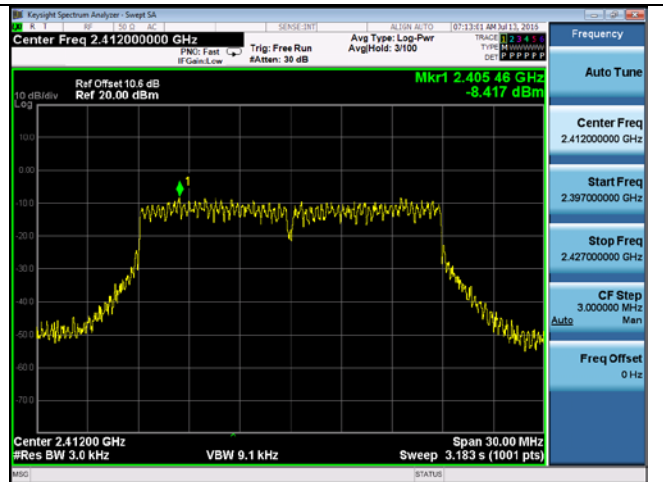
PSD-2.4G-802.11n-20M Low-chain1



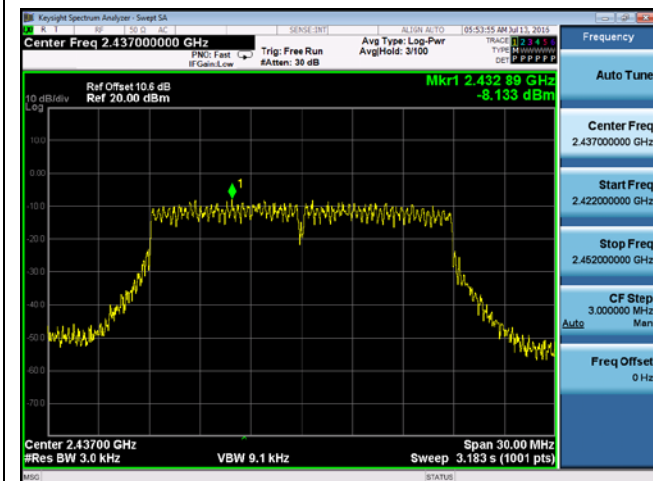
PSD-2.4G-802.11n-20M Low-chain2



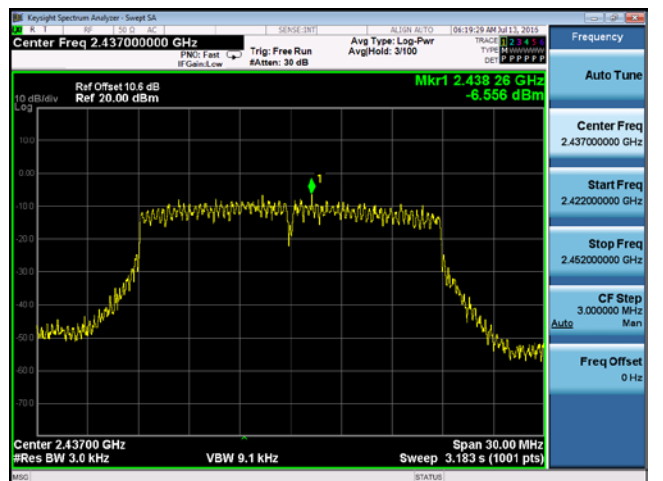
PSD-2.4G-802.11n-20M Low-chain3



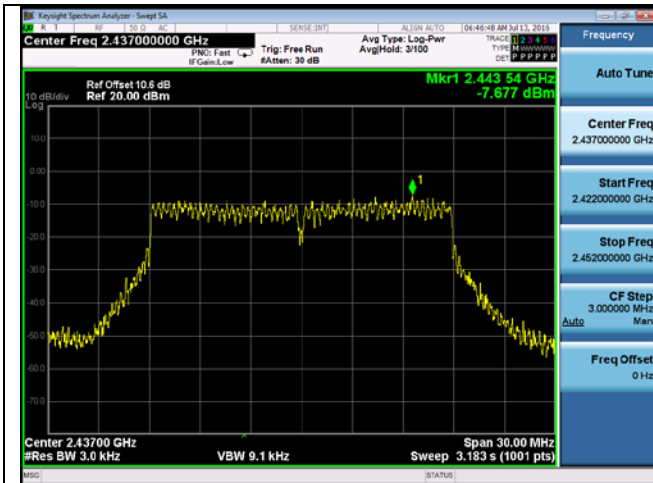
PSD-2.4G-802.11n-20M Low-chain4



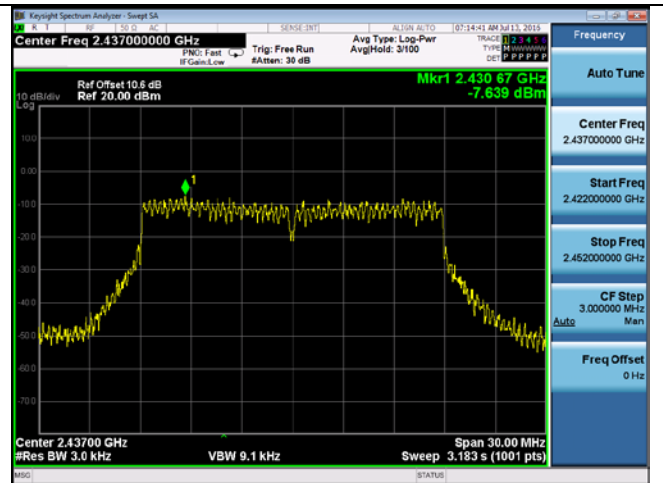
PSD-2.4G-802.11n-20M Mid-chain1



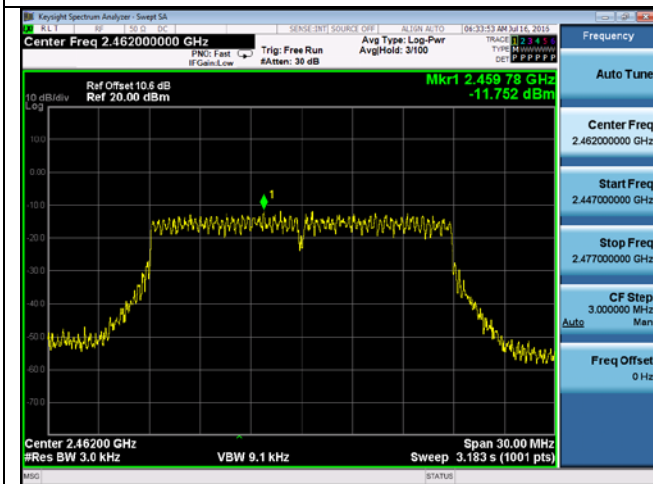
PSD-2.4G-802.11n-20M Mid-chain2



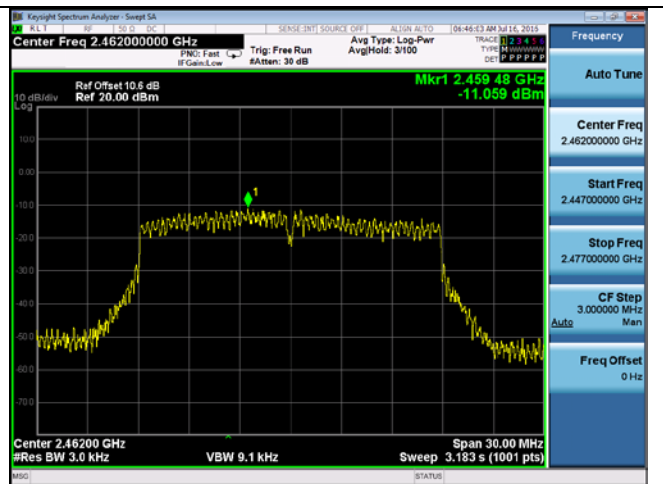
PSD-2.4G-802.11n-20M Mid-chain3



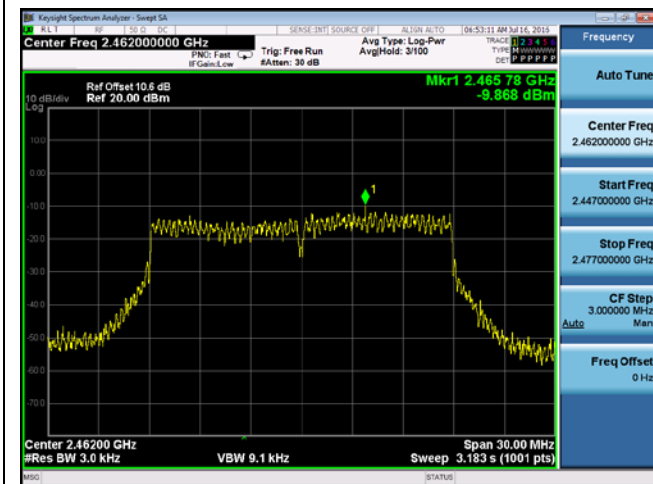
PSD-2.4G-802.11n-20M Mid-chain4



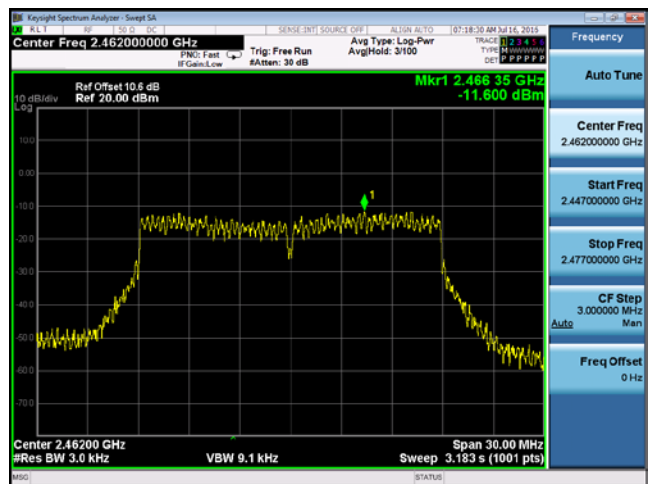
PSD-2.4G-802.11n-20M High-chain1



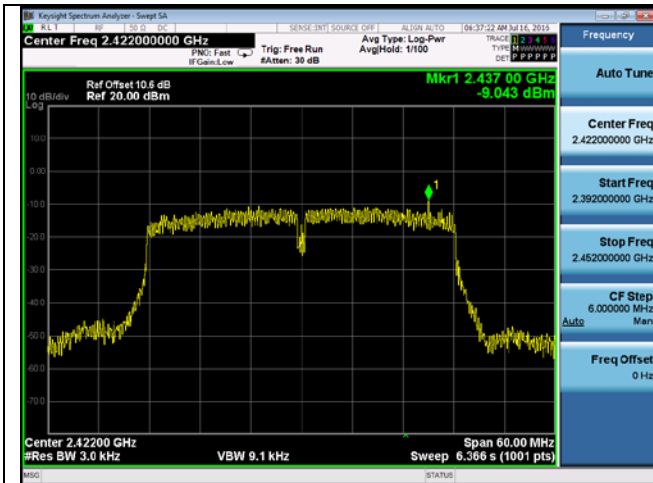
PSD-2.4G-802.11n-20M High-chain2



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



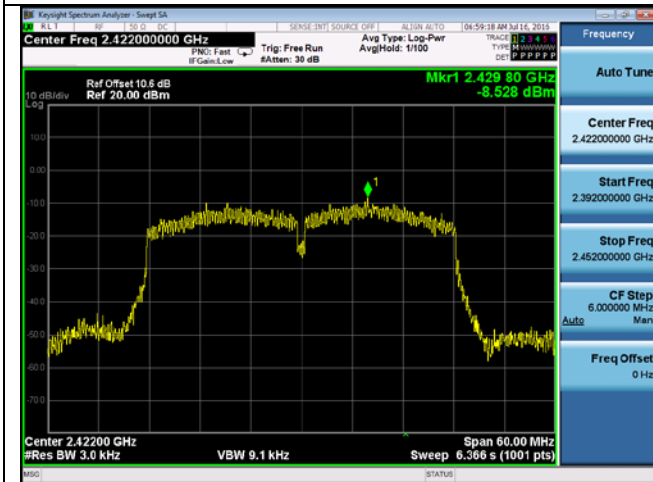
PSD-2.4G-802.11n-20M High-chain4



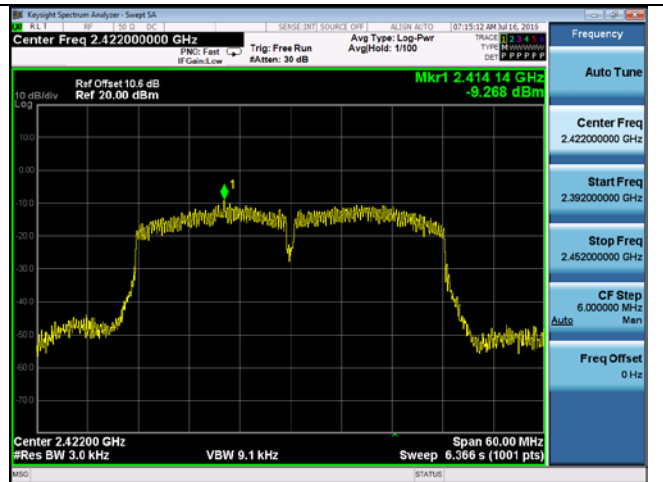
PSD-2.4G-802.11n-40M Low-chain1



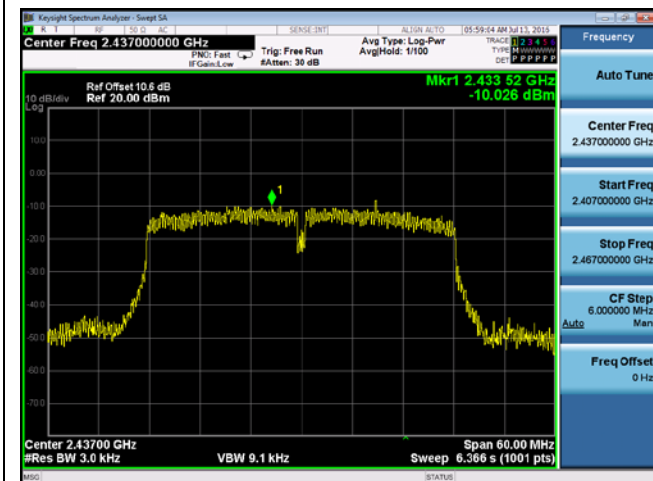
PSD-2.4G-802.11n-40M Low-chain2



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



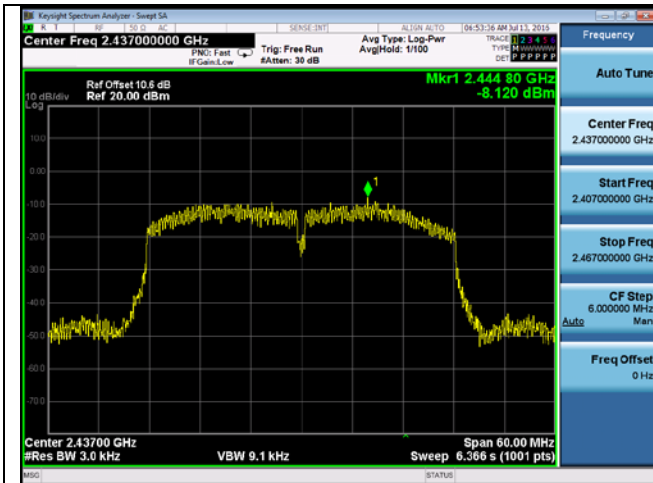
PSD-2.4G-802.11n-40M Low-chain4



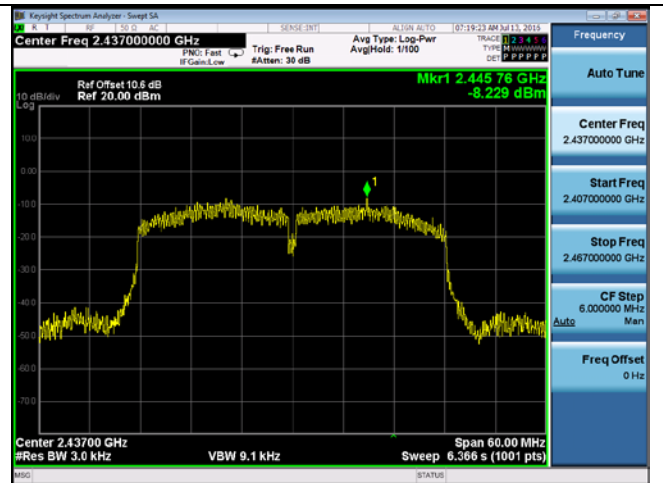
PSD-2.4G-802.11n-40M Mid-chain1



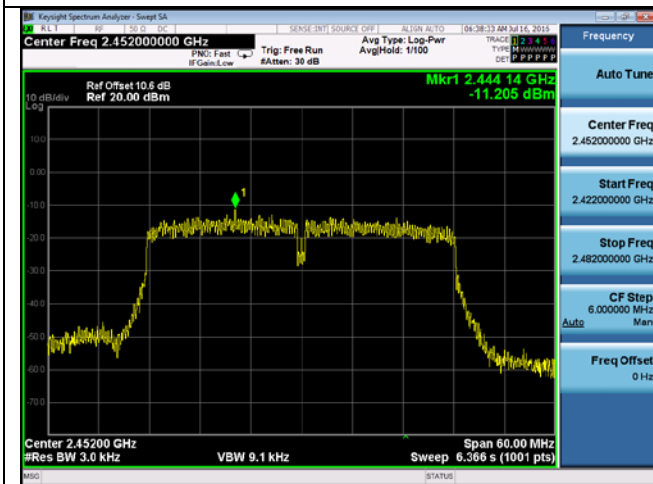
PSD-2.4G-802.11n-40M Mid-chain2



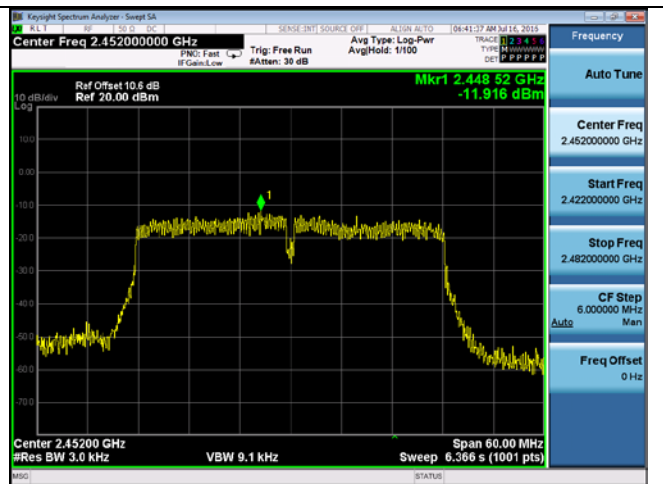
PSD-2.4G-802.11n-40M Mid-chain3



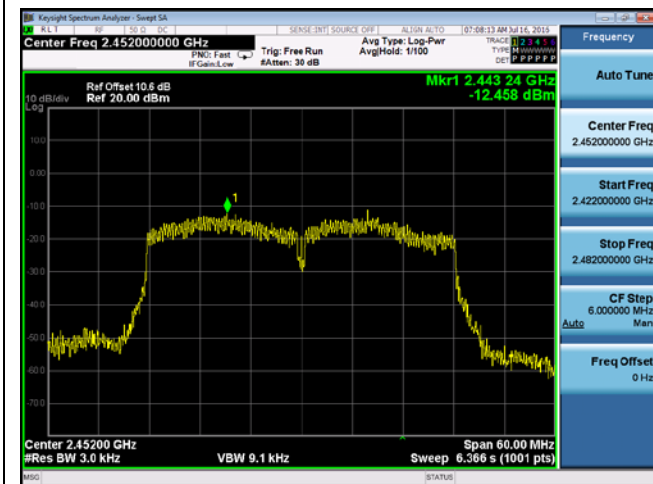
PSD-2.4G-802.11n-40M Mid-chain4



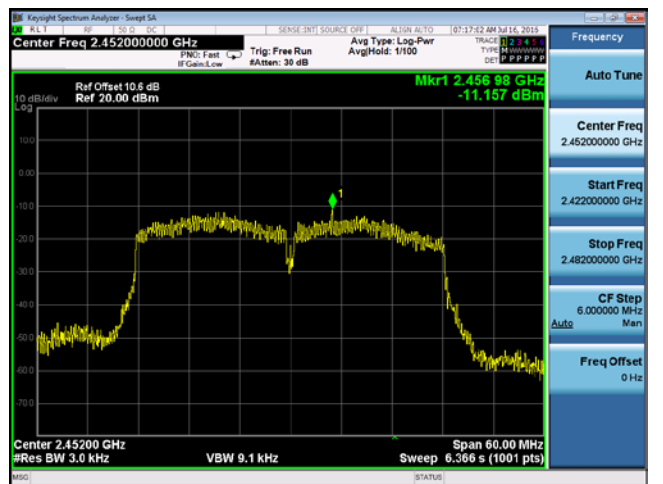
PSD-2.4G-802.11n-40M High-chain1



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



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



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

Note: Cable loss was 10.6dB.

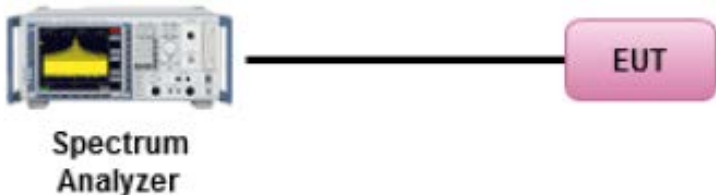
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10.1 Conducted Unwanted Emission

Requirement(s):

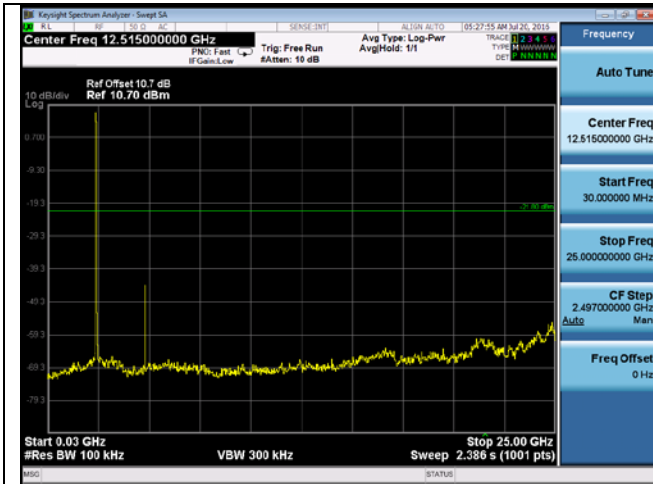
Spec	Item	Requirement	Applicable
§ 15.247 RSS247(5.5)	d)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be 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"/>
Test Setup			
Test Procedure	<p>558074 D01 DTS Meas Guidance v03r04</p> <p><u>measurement procedure</u></p> <ol style="list-style-type: none"> 1. Set the EUT to maximum power setting and enable the EUT transmit continuously. 2. Conducted unwanted emissions must be at least 30 dB down from the highest emission level within the authorized band as a measured. The attunation shall be be 30 dB instead of 20 dB when RMS conducted output power procedure is used. 3. Change modulation and channel bandwidth then repeat step 1 to 2. 4. Measured and record the results in the test report. 		
Test Date	07/19/2016	Environmental condition	Temperature 24°C Relative Humidity 44.9% Atmospheric Pressure 1010mbar
Remark	Offset was added.		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☐ Yes ☒ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Rachana Khanduri at RF Test Site.

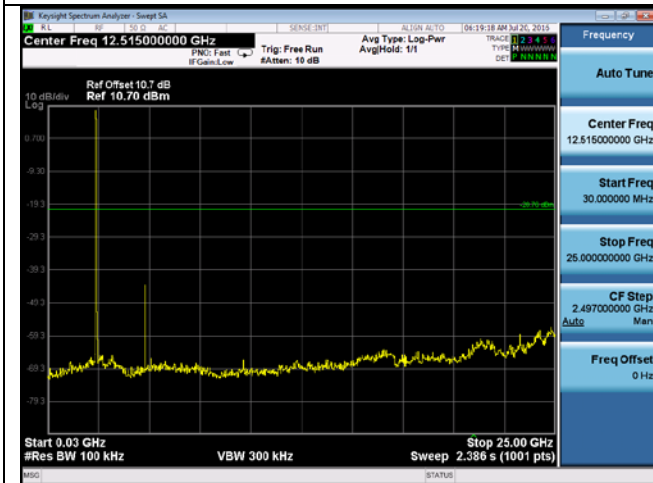
Conducted Unwanted Emission Test Plots



Conducted Unwanted Emission-802.11b Low-chain1



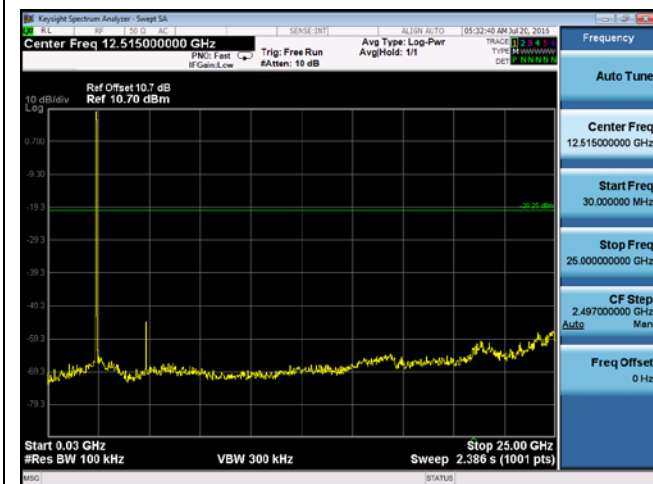
Conducted Unwanted Emission-2.4G-802.11b Low-chain2



Conducted Unwanted Emission-802.11b Low-chain3



Conducted Unwanted Emission-2.4G-802.11b Low-chain4



Conducted Unwanted Emission-2.4G-802.11b Mid-chain1



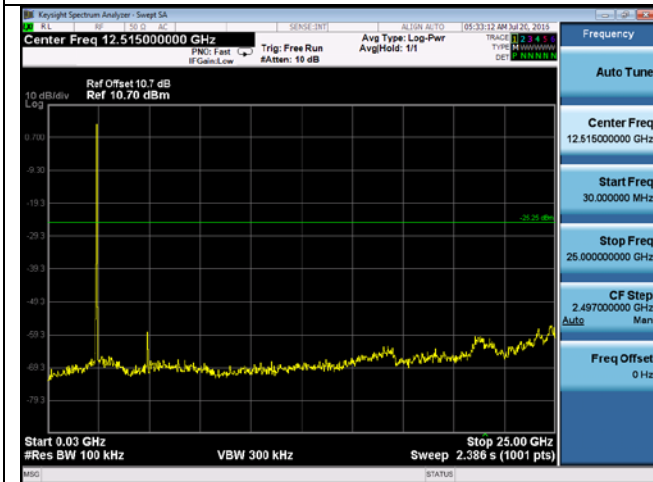
Conducted Unwanted Emission-2.4G-802.11b Mid-chain2



Conducted Unwanted Emission -2.4G-802.11b Mid-chain3



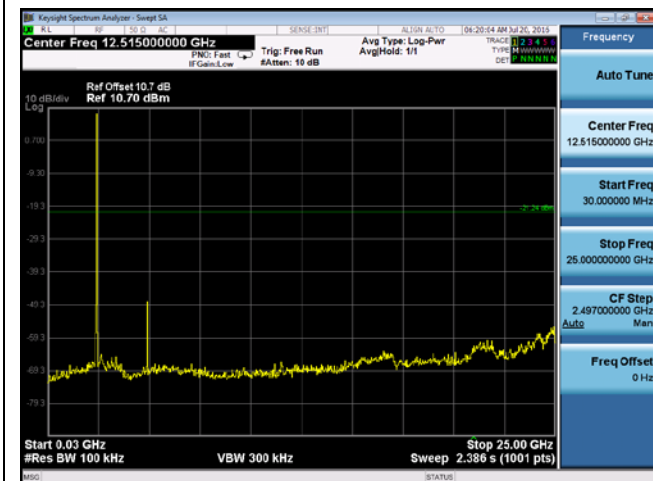
Conducted Unwanted Emission-2.4G-802.11b Mid-chain4



Conducted Unwanted Emission-2.4G-802.11b High-chain1



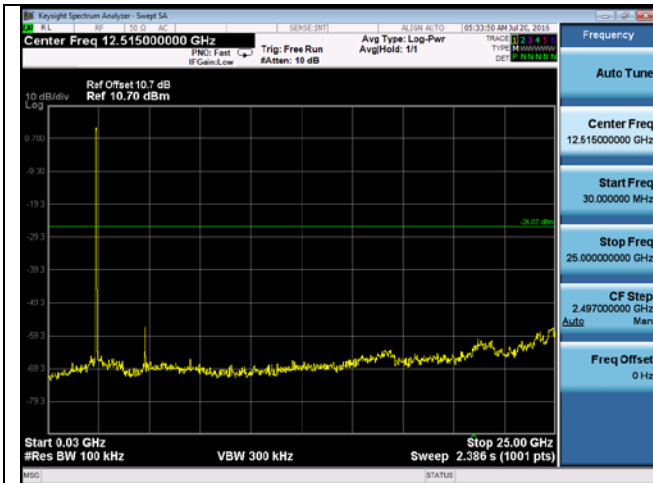
Conducted Unwanted Emission-2.4G-802.11b High-chain2



Conducted Unwanted Emission -2.4G-802.11b High-chain3



Conducted Unwanted Emission -2.4G-802.11b High-chain4



Conducted Unwanted Emission -2.4G-802.11g Low-chain1



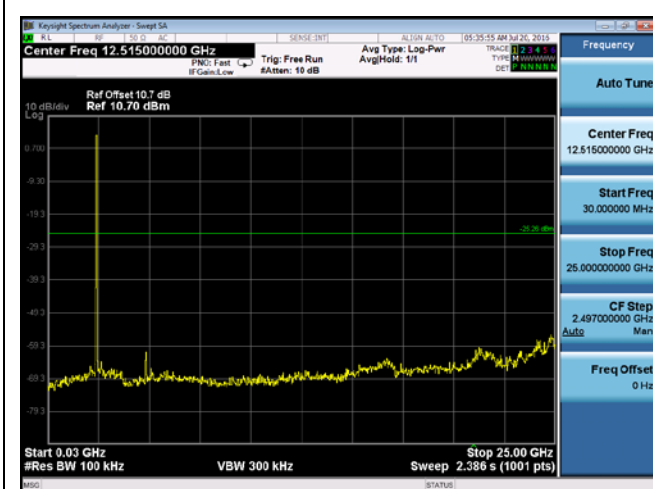
Conducted Unwanted Emission -2.4G-802.11g Low-chain2



Conducted Unwanted Emission -2.4G-802.11g Low-chain3



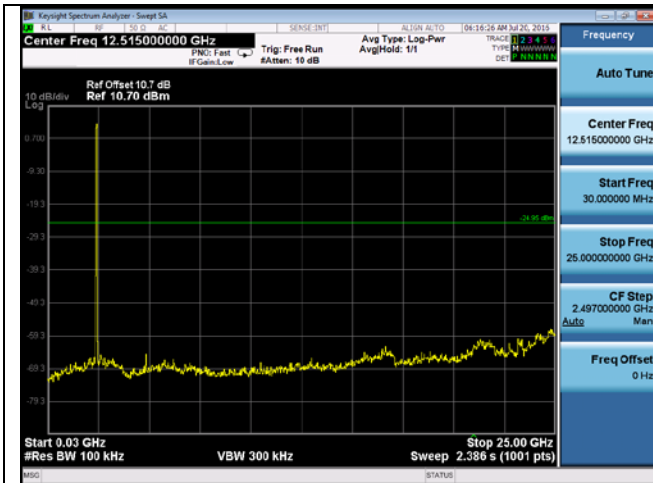
Conducted Unwanted Emission -2.4G-802.11g Low-chain4



Conducted Unwanted Emission -2.4G-802.11g Mid-chain1



Conducted Unwanted Emission -2.4G-802.11g Mid-chain2



Conducted Unwanted Emission -2.4G-802.11g Mid-chain3



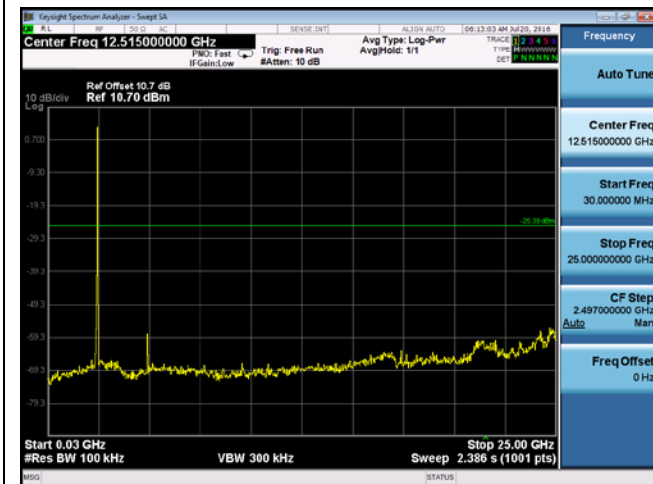
Conducted Unwanted Emission -2.4G-802.11g Mid-chain4



Conducted Unwanted Emission -2.4G-802.11g High-chain1



Conducted Unwanted Emission -2.4G-802.11g High-chain2



Conducted Unwanted Emission -2.4G-802.11g High-chain3



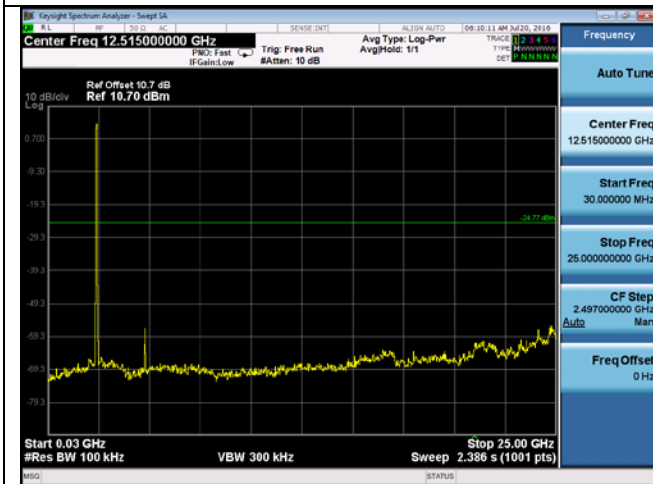
Conducted Unwanted Emission -2.4G-802.11g High-chain4



Conducted Unwanted Emission-2.4G-802.11n20M Low chain1



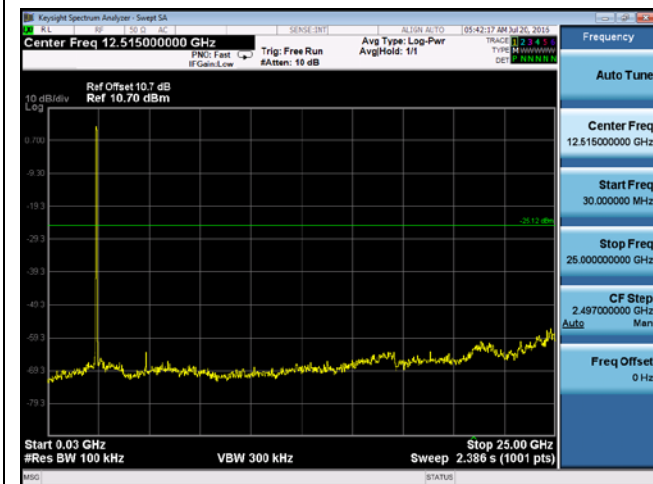
Conducted Unwanted Emission-2.4G-802.11n20M Low chain2



Conducted Unwanted Emission-2.4G-802.11n20M Low-chain3



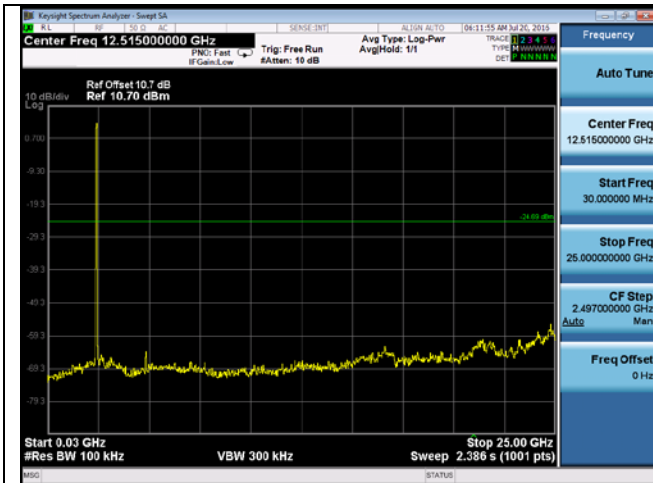
Conducted Unwanted Emission-2.4G-802.11n20M Low-chain4



Conducted Unwanted Emission-2.4G-802.11n-20M Mid-chain1



Conducted Unwanted Emission-2.4G-802.11n-20M Mid-chain2



Conducted Unwanted Emission-2.4G-802.11n-20M Mid-chain3



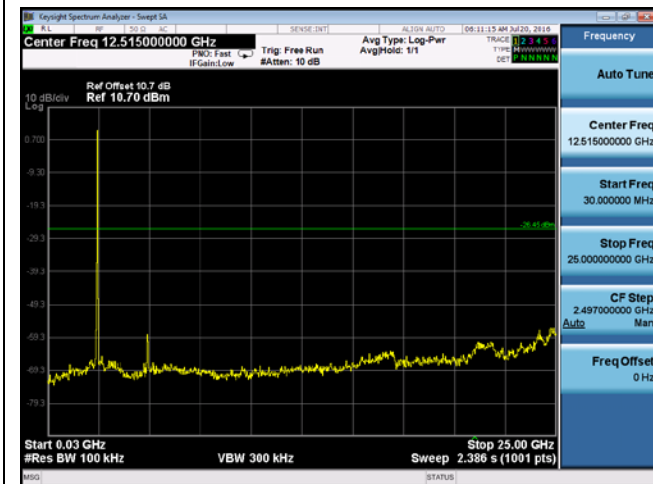
Conducted Unwanted Emission-2.4G-802.11n-20M Mid-chain4



Conducted Unwanted Emission-2.4G-802.11n20M Highchain1



Conducted Unwanted Emission-2.4G-802.11n20M Highchain2



Conducted Unwanted Emission-2.4G-802.11n20M Highchain3



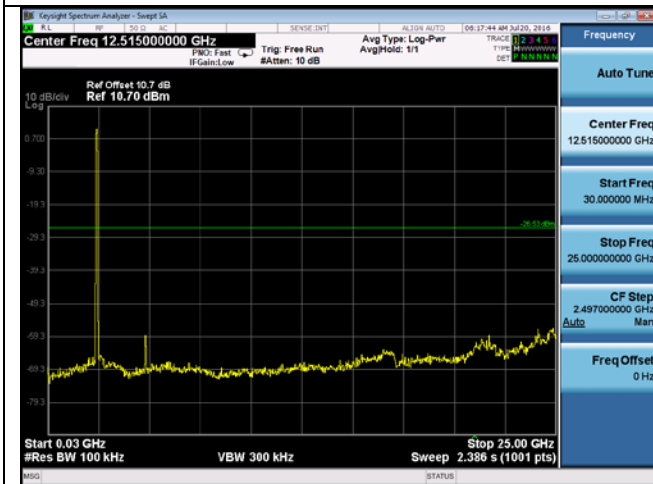
Conducted Unwanted Emission-2.4G-802.11n20M Highchain4



Conducted Unwanted Emission 2.4G-802.11n40M Low-chain1



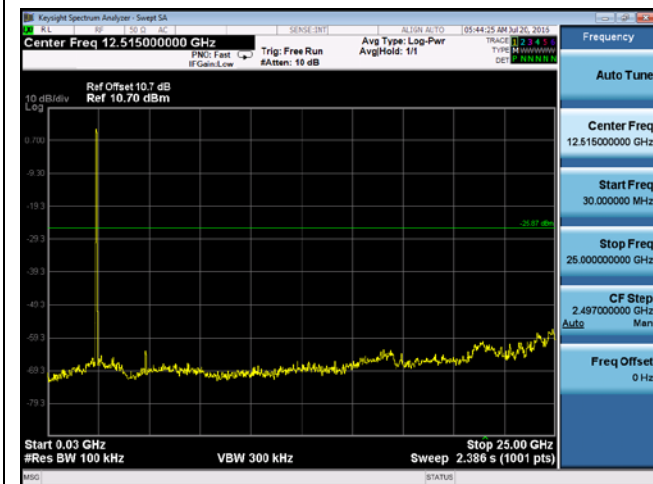
Conducted Unwanted Emission 2.4G-802.11n40M Low-chain2



Conducted Unwanted Emission 2.4G-802.11n40M Low-chain3



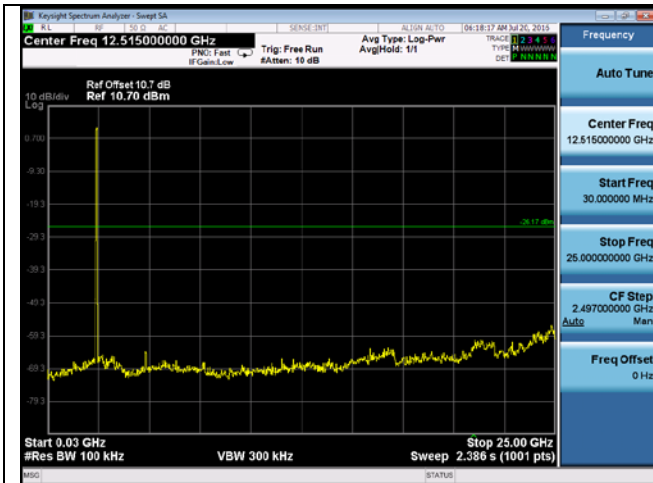
Conducted Unwanted Emission 2.4G-802.11n40M Low-chain4



Conducted Unwanted Emission 2.4G-802.11n-40M Mid-chain1



Conducted Unwanted Emission 2.4G-802.11n-40M Mid-chain2



Conducted Unwanted Emission-2.4G-802.11n-40M Mid-chain3



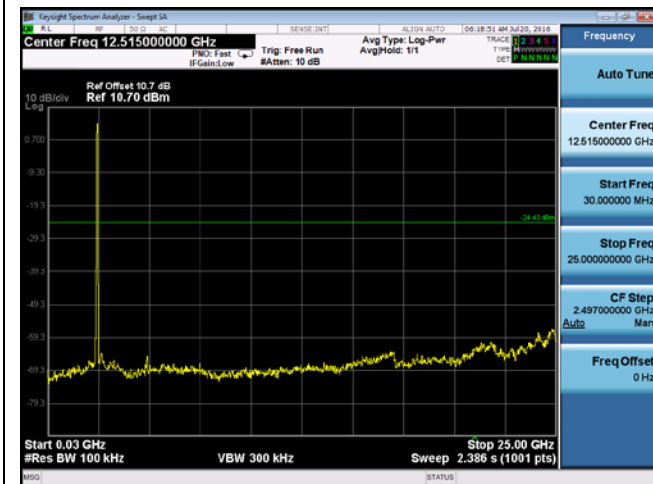
Conducted Unwanted Emission-2.4G-802.11n-40M Mid-chain4



Conducted Unwanted Emission-2.4G-802.11n40M Highchain1



Conducted Unwanted Emission 2.4G-802.11n40M Highchain2



Conducted Unwanted Emission 2.4G 802.11n40M High chain3

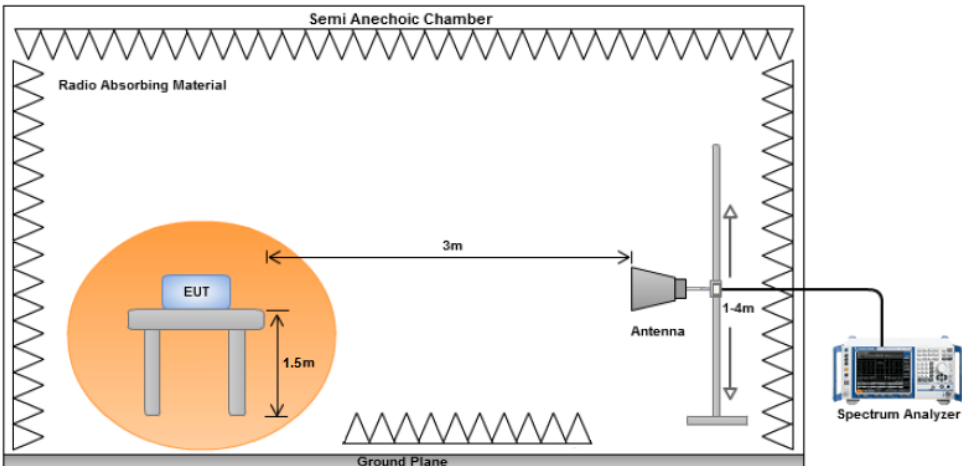


Conducted Unwanted Emission2.4G-802.11n40M High chain4

Note: Cable loss was 10.7dB.

10.2 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"> The EUT was switched on and allowed to warm up to its normal operating condition. 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"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. An average measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured. 		
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		

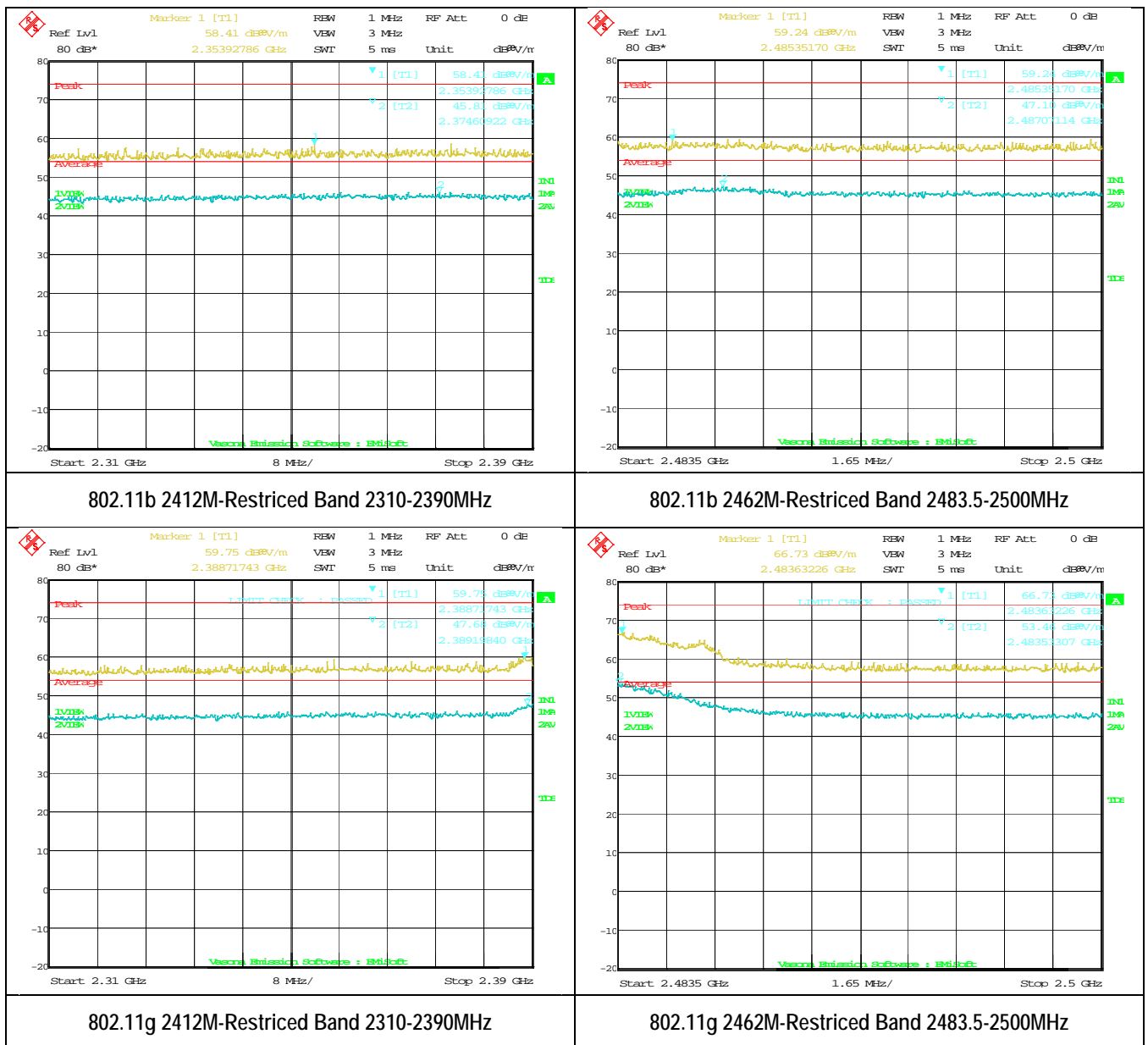
Test Data ☐ Yes (See below) ☒ N/A
Test Plot ☒ Yes (See below) ☐ N/A

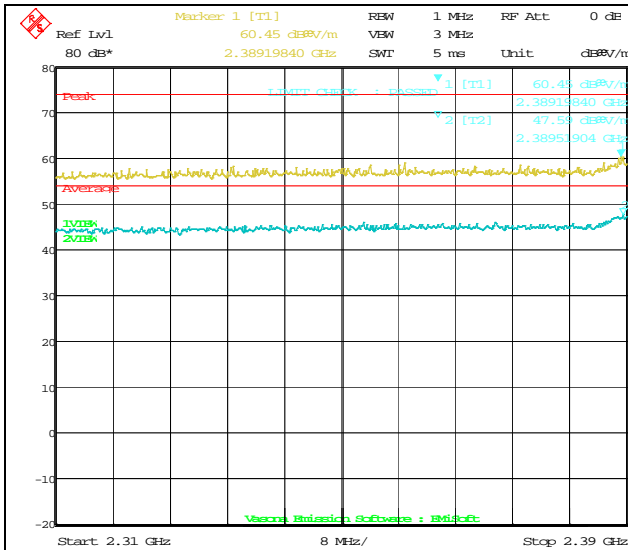
Test was done by *Rachana Khanduri* at *10m Chamber*.

Radiated Spurious Emissions in Restricted Band Test Results

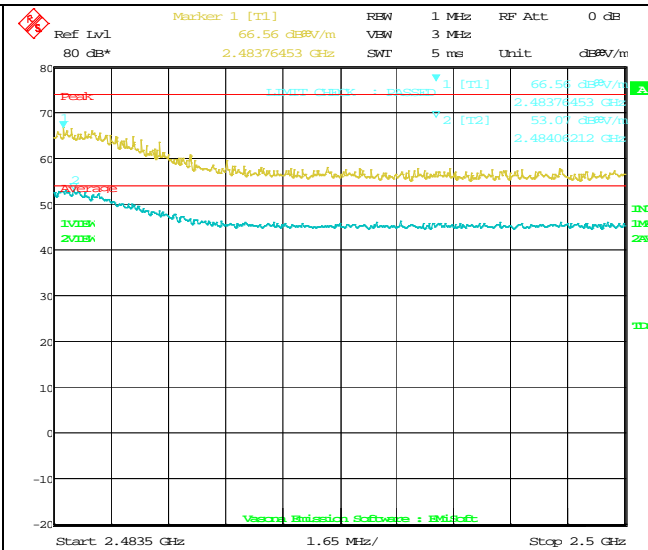
Test specification	Restricted Band			
Environmental Conditions:	Temp (°C):	24	Result	☑ Pass
	Humidity (%)	44.9		
	Atmospheric (mPa):	1010.6		
Mains Power:	120VAC, 60Hz			☐ Fail
Tested by:	Rachana Khanduri			
Test Date:	07/11/2016			
Remarks:	-			

Restricted Band Measurement Plots:

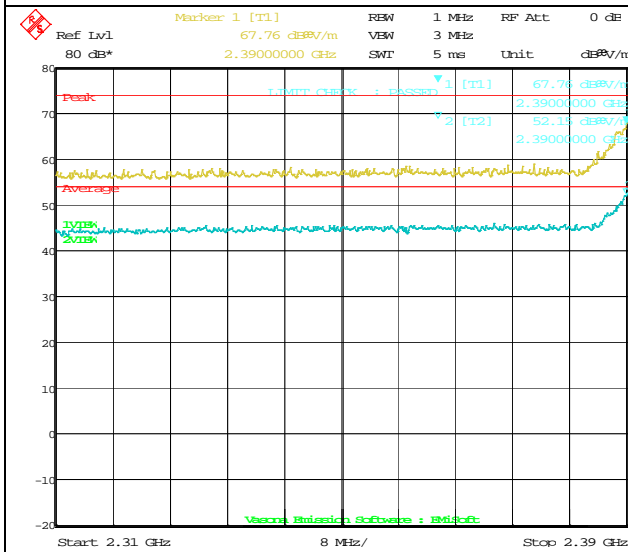




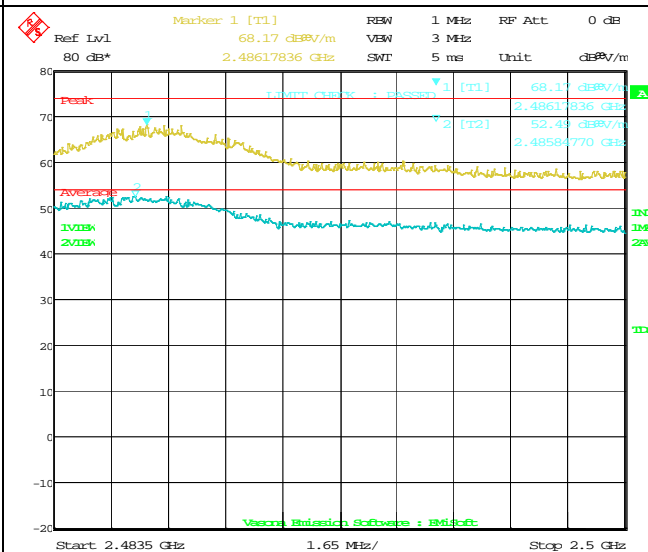
802.11n20 2412M-Restricted Band 2310-2390MHz



802.11n20 2462M-Restricted Band 2483.5-2500MHz



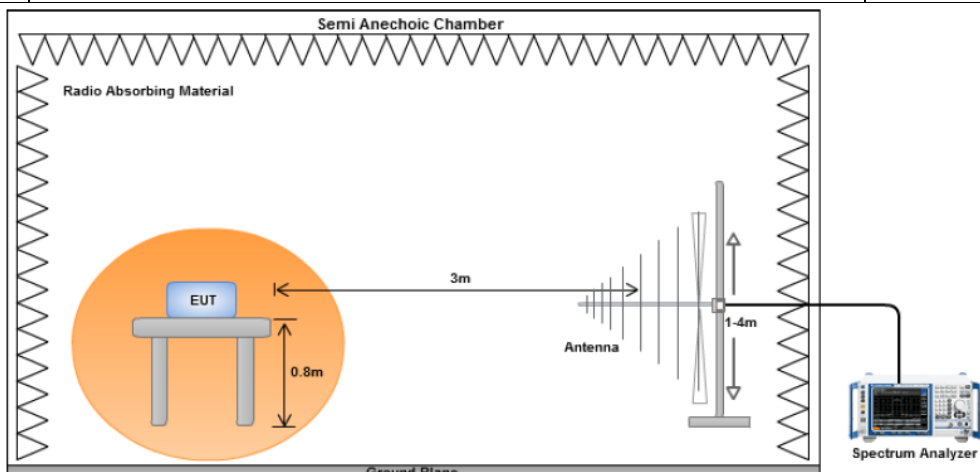
802.11n40 2422M-Restricted Band 2310-2390MHz



802.11n40 2452M-Restricted Band 2483.5-2500MHz

10.3 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><tr><th>Frequency range (MHz)</th><th>Field Strength (uV/m)</th></tr><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></table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	<div><input checked="" type="checkbox"/></div>
Frequency range (MHz)	Field Strength (uV/m)												
30 – 88	100												
88 – 216	150												
216 960	200												
Above 960	500												
Test Setup	<div></div>												
Procedure	<div><div>1.</div><div>2.</div></div> <p>The EUT was switched on and allowed to warm up to its normal operating condition. 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:</p> <div><div>a.</div><div>b.</div><div>c.</div></div> <p>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. A Quasi-peak measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>												
Remark	The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.												
Result	<div><div><input checked="" type="checkbox"/> Pass</div><div><input type="checkbox"/> Fail</div></div>												

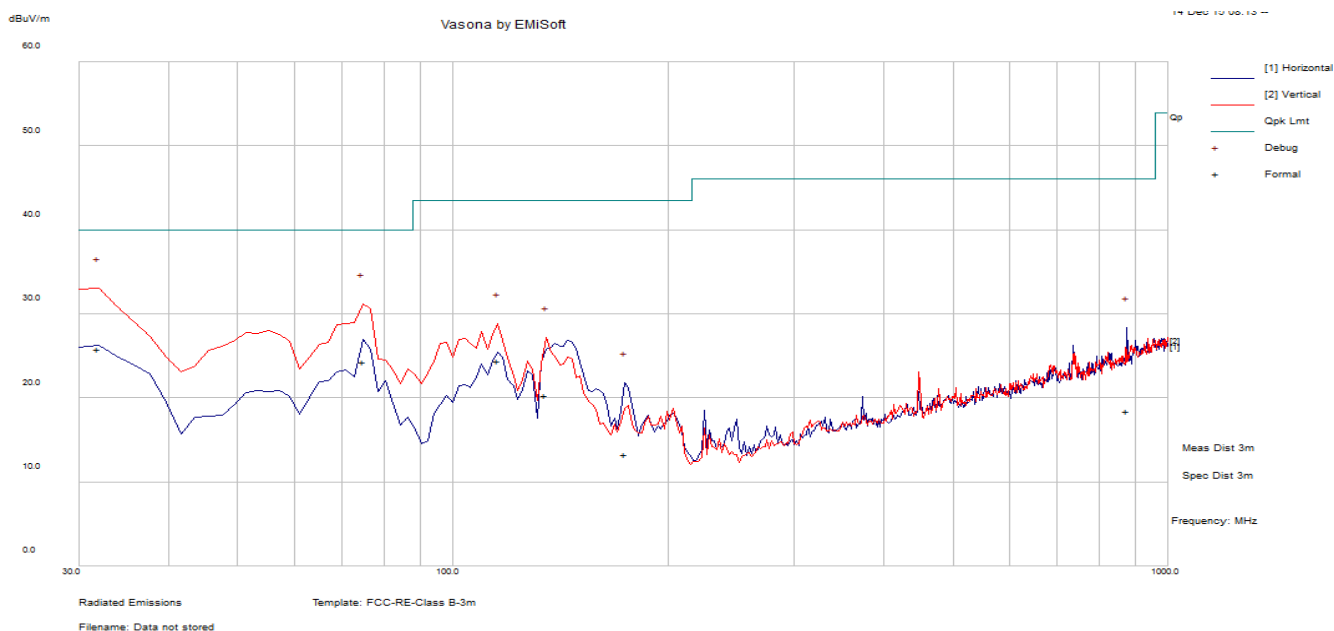
Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by *Gary Chou* at *10m Chamber*.

Radiated Emission Test Results (Below 1GHz)

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

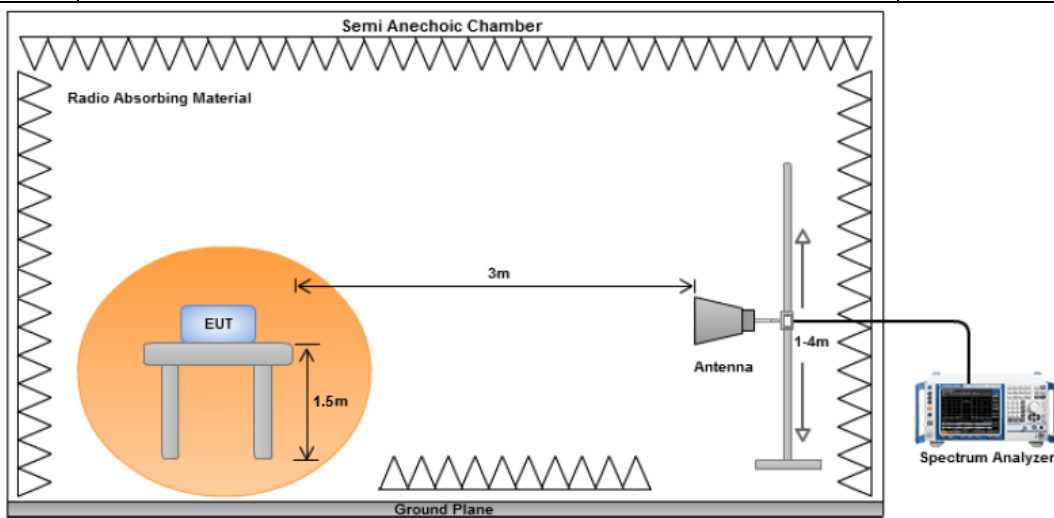


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Amp dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
31.85	43.13	0.82	20.28	38.41	25.82	Quasi Max	V	104	148	40.00	-14.18	Pass
74.94	53.34	1.37	8.79	39.23	24.27	Quasi Max	V	122	220	40.00	-15.73	Pass
115.58	50.12	1.76	12.26	39.67	24.47	Quasi Max	V	110	175	43.52	-19.05	Pass
134.85	43.53	1.92	14.60	39.73	20.32	Quasi Max	V	133	213	43.52	-23.20	Pass
875.37	31.30	5.33	20.94	39.08	18.49	Quasi Max	H	197	344	46.02	-27.53	Pass
173.75	38.63	2.24	12.19	39.80	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.

10.4 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"> The EUT was switched on and allowed to warm up to its normal operating condition. 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"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. An average measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured. 		
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

Test was done by *Gary Chou* at *3m Chamber*.

Radiated Emission Test Results (Above 1GHz)

1GHz-25GHz – 802.11b – 2412MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4061.33	67.72	8.66	51.01	32.00	60.90	Peak Max	H	115	174	74	-13.10	Pass
4824.01	64.69	10.37	50.28	33.29	61.84	Peak Max	V	194	327	74	-12.16	Pass
6131.67	65.80	10.65	49.39	34.98	62.18	Peak Max	V	110	356	74	-11.82	Pass
4061.33	56.47	8.66	51.01	32.00	49.65	Average Max	H	115	174	54	-4.35	Pass
4824.01	55.65	10.37	50.28	33.29	52.80	Average Max	V	194	327	54	-1.20	Pass*
6131.67	53.28	10.65	49.39	34.98	49.66	Average Max	V	110	356	54	-4.34	Pass

1GHz-25GHz- 802.11b - 2437MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4090.88	67.95	8.73	51.01	32.00	61.33	Peak Max	H	122	235	74	-12.67	Pass
6204.43	65.78	10.74	49.39	34.92	62.42	Peak Max	V	189	321	74	-11.58	Pass
1022.24	69.91	3.39	53.85	23.19	60.14	Peak Max	H	157	197	74	-13.87	Pass
4874.18	64.18	10.47	50.28	33.32	61.49	Peak Max	H	138	121	74	-12.51	Pass
4090.88	56.34	8.73	51.01	32.00	49.72	Average Max	H	122	235	54	-4.28	Pass*
6204.43	52.69	10.74	49.39	34.92	49.33	Average Max	V	189	321	54	-4.67	Pass

1GHz-25GHz- 802.11b – 2462MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4924.65	61.89	10.57	50.28	33.32	59.37	Peak Max	H	162	339	74	-14.63	Pass
6246.77	64.35	10.79	49.39	34.92	61.14	Peak Max	V	164	71	74	-12.86	Pass
1041.99	70.35	3.42	53.85	23.19	60.64	Peak Max	V	159	143	74	-13.36	Pass
4924.65	50.30	10.57	50.28	33.32	47.78	Average Max	H	162	339	54	-6.22	Pass
6246.77	52.50	10.79	49.39	34.92	49.29	Average Max	V	164	71	54	-4.71	Pass
1041.99	57.68	3.42	53.85	23.19	47.97	Average Max	V	159	143	54	-6.03	Pass

Pass*: The margin is within the measurement uncertainty.

1GHz-25GHz – 802.11g – 2412MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4153.74	68.11	8.89	51.01	32.11	61.92	Peak Max	V	149	46	74	-12.08	Pass
6123.11	64.65	10.63	49.39	34.98	60.99	Peak Max	H	145	32	74	-13.01	Pass
1083.98	68.76	3.48	53.85	23.41	59.17	Peak Max	H	153	54	74	-14.83	Pass
4153.74	56.06	8.89	51.01	32.11	49.87	Average Max	V	149	46	54	-4.13	Pass*
6123.11	53.24	10.63	49.39	34.98	49.58	Average Max	H	145	32	54	-4.42	Pass
1083.98	56.47	3.48	53.85	23.41	46.88	Average Max	H	153	54	54	-7.12	Pass

1GHz-25GHz- 802.11g – 2437MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4874.26	63.48	10.47	50.28	33.32	60.79	Peak Max	V	137	215	74	-13.21	Pass
6120.27	64.61	10.63	49.39	34.98	60.94	Peak Max	V	232	230	74	-13.06	Pass
1019.45	69.87	3.38	53.85	23.19	60.08	Peak Max	V	125	353	74	-13.92	Pass
4874.26	51.1	10.47	50.28	33.32	48.41	Average Max	V	137	215	54	-5.59	Pass
6120.27	53.14	10.63	49.39	34.98	49.47	Average Max	V	232	230	54	-4.53	Pass
1019.45	57.96	3.38	53.85	23.19	48.17	Average Max	V	125	353	54	-5.83	Pass

1GHz-25GHz- 802.11g - 2462MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6089.93	64.43	10.59	49.39	34.98	60.65	Peak Max	V	122	30	74	-13.36	Pass
2092.49	70.35	4.36	52.78	27.18	60	Peak Max	V	209	295	74	-14.01	Pass
1052.08	68.72	3.43	53.85	23.41	59.03	Peak Max	H	159	335	74	-14.97	Pass
6089.93	53.16	10.59	49.39	34.98	49.38	Average Max	V	122	30	54	-4.62	Pass
2092.49	57.88	4.36	52.78	27.18	47.53	Average Max	V	209	295	54	-6.47	Pass
1052.08	57.35	3.43	53.85	23.41	47.66	Average Max	H	159	335	54	-6.34	Pass

Pass*: The margin is within the measurement uncertainty.

1GHz-25GHz – 802.11n-20M – 2412MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4187.20	67.85	8.97	51.01	32.11	61.89	Peak Max	V	137	76	74	-12.11	Pass
1030.17	69.09	3.40	53.85	23.19	59.34	Peak Max	H	153	88	74	-14.66	Pass
6059.37	64.96	10.56	49.39	34.98	61.07	Peak Max	H	243	29	74	-12.93	Pass
4187.20	55.47	8.97	51.01	32.11	49.51	Average Max	V	137	76	54	-4.49	Pass
1030.17	57.68	3.40	53.85	23.19	47.93	Average Max	H	153	88	54	-6.07	Pass
6059.37	53.25	10.56	49.39	34.98	49.36	Average Max	H	243	29	54	-4.64	Pass

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

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4186.84	67.72	8.97	51.01	32.11	61.75	Peak Max	V	152	153	74	-12.25	Pass
6058.06	65.15	10.55	49.39	34.98	61.25	Peak Max	H	134	247	74	-12.75	Pass
4826.55	61.89	10.37	50.28	33.29	59.04	Peak Max	V	176	303	74	-14.96	Pass
4186.84	55.65	8.97	51.01	32.11	49.68	Average Max	V	152	153	54	-4.32	Pass
6058.06	53.08	10.55	49.39	34.98	49.18	Average Max	H	134	247	54	-4.82	Pass
4826.55	51.00	10.37	50.28	33.29	48.15	Average Max	V	176	303	54	-5.85	Pass

1GHz-25GHz- 802.11n-20M – 2462MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4187.43	66.85	8.97	51.01	32.11	60.89	Peak Max	V	233	22	74	-13.12	Pass
6058.21	65.56	10.55	49.39	34.98	61.66	Peak Max	H	204	61	74	-12.34	Pass
4826.36	62.81	10.37	50.28	33.29	59.96	Peak Max	V	203	148	74	-14.04	Pass
4187.43	55.71	8.97	51.01	32.11	49.75	Average Max	V	233	22	54	-4.25	Pass*
6058.21	53.78	10.55	49.39	34.98	49.88	Average Max	H	204	61	54	-4.12	Pass*
4826.36	51.05	10.37	50.28	33.29	48.2	Average Max	V	203	148	54	-5.8	Pass

Pass*: The margin is within the measurement uncertainty.

1GHz-25GHz – 802.11n-40M – 2422MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4293.41	66.86	9.23	50.6	32.34	61.60	Peak Max	V	109	312	74	-12.40	Pass
6302.07	64.31	10.85	49.09	34.48	61.29	Peak Max	V	213	292	74	-12.71	Pass
4962.57	63.89	10.64	50.28	33.67	61.48	Peak Max	V	231	107	74	-12.52	Pass
4293.41	55.6	9.23	50.6	32.34	50.34	Average Max	V	109	312	54	-3.66	Pass*
6302.07	52.91	10.85	49.09	34.48	49.89	Average Max	V	213	292	54	-4.11	Pass*
4962.57	51.57	10.64	50.28	33.67	49.16	Average Max	V	231	107	54	-4.84	Pass

1GHz-25GHz- 802.11n-40M – 2437MHz

Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4251.06	67.55	9.13	50.6	32.34	62.02	Peak Max	V	150	265	74	-11.98	Pass
6121.55	65.91	10.63	49.39	34.98	62.24	Peak Max	V	209	2	74	-11.77	Pass
1000.67	70.25	3.35	53.85	23.19	60.4	Peak Max	V	246	76	74	-13.60	Pass
4251.06	55.88	9.13	50.6	32.34	50.35	Average Max	V	150	265	54	-3.65	Pass*
6121.55	54.07	10.63	49.39	34.98	50.4	Average Max	V	209	2	54	-3.60	Pass*
1000.67	58.44	3.35	53.85	23.19	48.59	Average Max	V	246	76	54	-5.42	Pass

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
















Frequency MHz	Raw dBuV	Cable Loss	Amp dB	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4178.71	68.49	8.95	51.01	32.11	62.47	Peak Max	H	145	142	74	-11.53	Pass
6247.78	65.20	10.79	49.39	34.92	62.00	Peak Max	H	183	182	74	-12.00	Pass
1032.22	68.85	3.40	53.85	23.19	59.10	Peak Max	V	232	359	74	-14.90	Pass
4178.71	56.22	8.95	51.01	32.11	50.20	Average Max	H	145	142	54	-3.80	Pass*
6247.78	53.25	10.79	49.39	34.92	50.05	Average Max	H	183	182	54	-3.95	Pass*
1032.22	57.91	3.40	53.85	23.19	48.16	Average Max	V	232	359	54	-5.84	Pass






Pass*: The margin is within the measurement uncertainty.

Annex A. TEST INSTRUMENT

Instrument	Model	Manufacturer	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions							
R & S Receiver	ESIB 40	Rohde & Schwarz	100179	06/08/2016	1 Year	06/08/2017	<input checked="" type="checkbox"/>
CHASE LISN (9k-30MHz)	MN2050B	Chase	1018	08/16/2016	1 Year	08/16/2017	<input checked="" type="checkbox"/>
Radiated Emissions							
R & S Receiver	ESIB 40	Rohde & Schwarz	100179	06/08/2016	1 Year	06/08/2017	<input checked="" type="checkbox"/>
Spectrum Analyzer	N9010A	Keysight	10SL0219	08/02/2016	1 Year	08/02/2017	<input checked="" type="checkbox"/>
Pre-Amplifier (1-26.5GHz)	8449B	Hewlett Packard	3008A00715	03/30/2016	1 Year	03/30/2017	<input checked="" type="checkbox"/>
Preamplifier (100KHz-7GHz)	LPA-6-30	RF Bay, Inc.	11140711	02/10/2016	1 Year	02/10/2017	<input checked="" type="checkbox"/>
ETS-Lingren Loop Antenna	6512	ETS-Lingren	00049120	07/14/2016	1 Year	07/14/2017	<input type="checkbox"/>
Bi-Log antenna (30MHz~2GHz)	JB1	Sunol Sciences	A030702	07/08/2016	1 Year	07/08/2017	<input checked="" type="checkbox"/>
Horn Antenna (1-26.5GHz)	3115	EMCO	10SL0059	08/11/2016	1 Year	08/11/2017	<input checked="" type="checkbox"/>
3 Meters SAC	3M	ETS-Lingren	N/A	06/09/2016	1 Year	06/09/2017	<input checked="" type="checkbox"/>
10 Meters SAC	10M	ETS-Lingren	N/A	07/06/2016	1 Year	07/06/2017	<input checked="" type="checkbox"/>
RF Conducted Measurement							
Spectrum Analyzer	N9010A	Keysight	10SL0219	08/02/2016	1 Year	08/02/2017	<input checked="" type="checkbox"/>
RF Cable	FXC-0B1F0B-24	Applied Interconnect	NSN	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Attenuator - 10dB (SMA)	50HF-010 SMA	JFW Industries, Inc	803	N/A	N/A	N/A	<input checked="" type="checkbox"/>
USB RF Power Sensor	7002-006	ETS-Lingren	10SL0190	09/03/2015	1 Year	09/03/2016	<input 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		A1 , A2 , A3 , A4 , B1 , B2 , B3 , B4 , 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		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)		Phase I , Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		<p>Radio: A1. Terminal equipment for purpose of calling</p> <p>Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law</p>
Korea CAB Accreditation		<p>EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI</p> <p>EMS: 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>Radio: 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>Telecom: 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>EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4</p> <p>Radio communications: 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>Telecommunications: 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