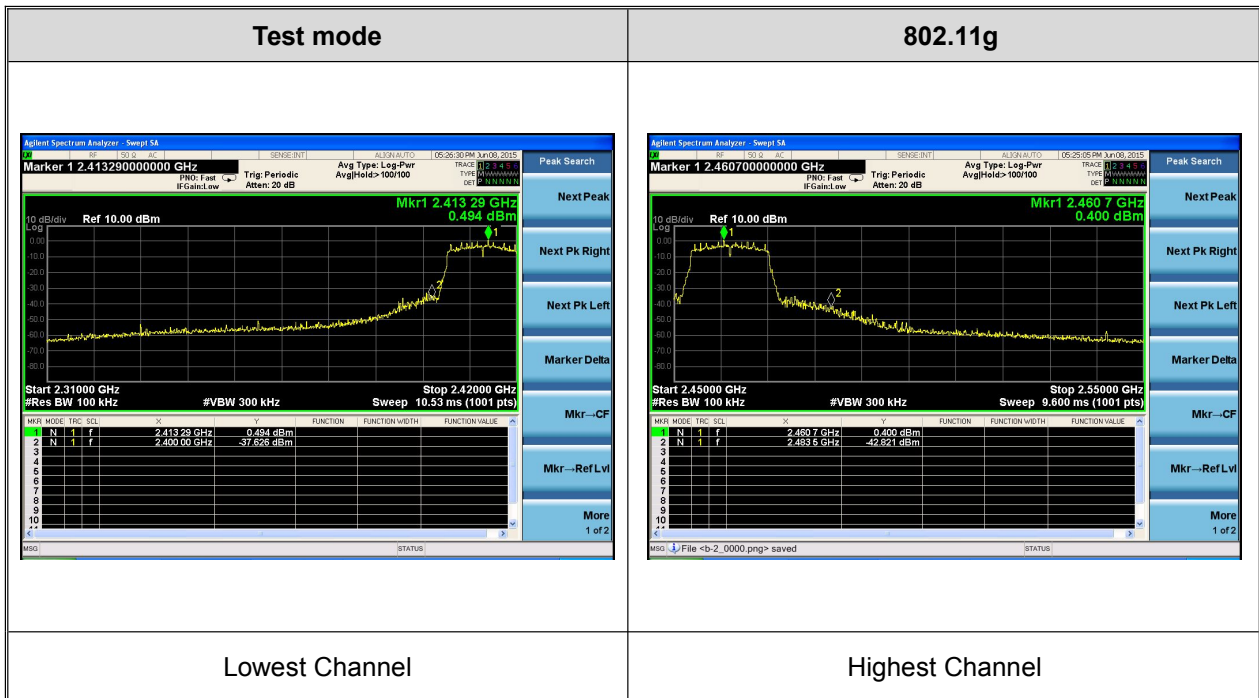
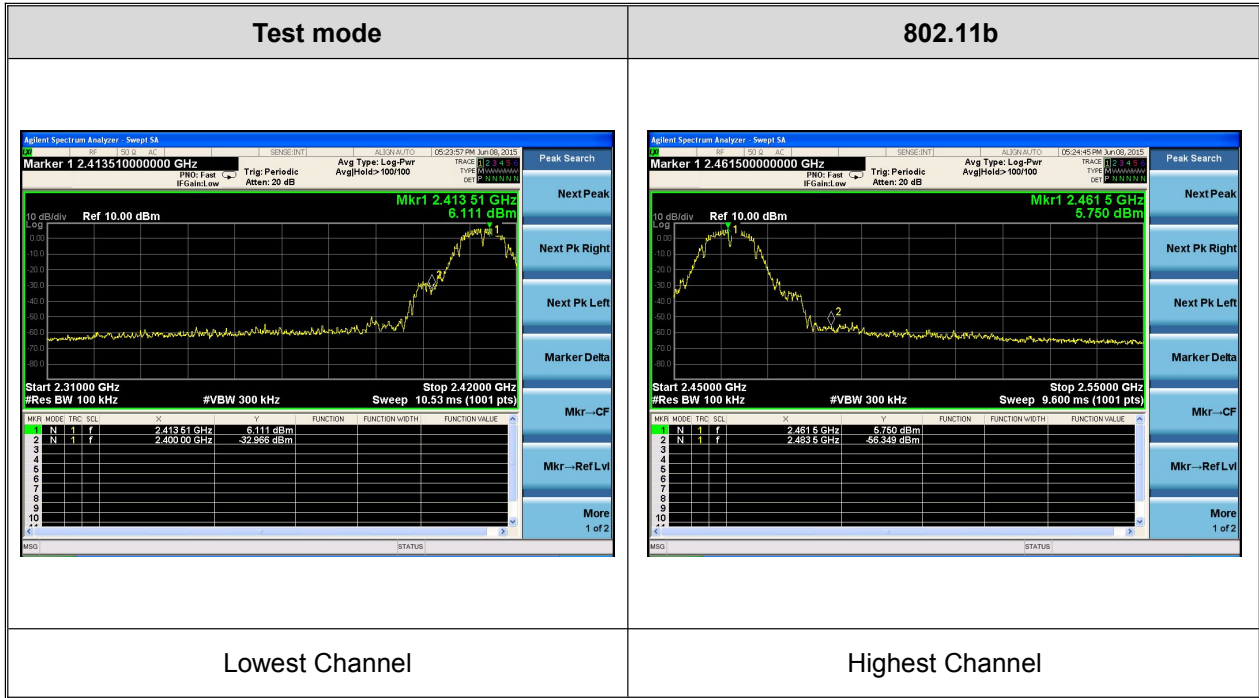




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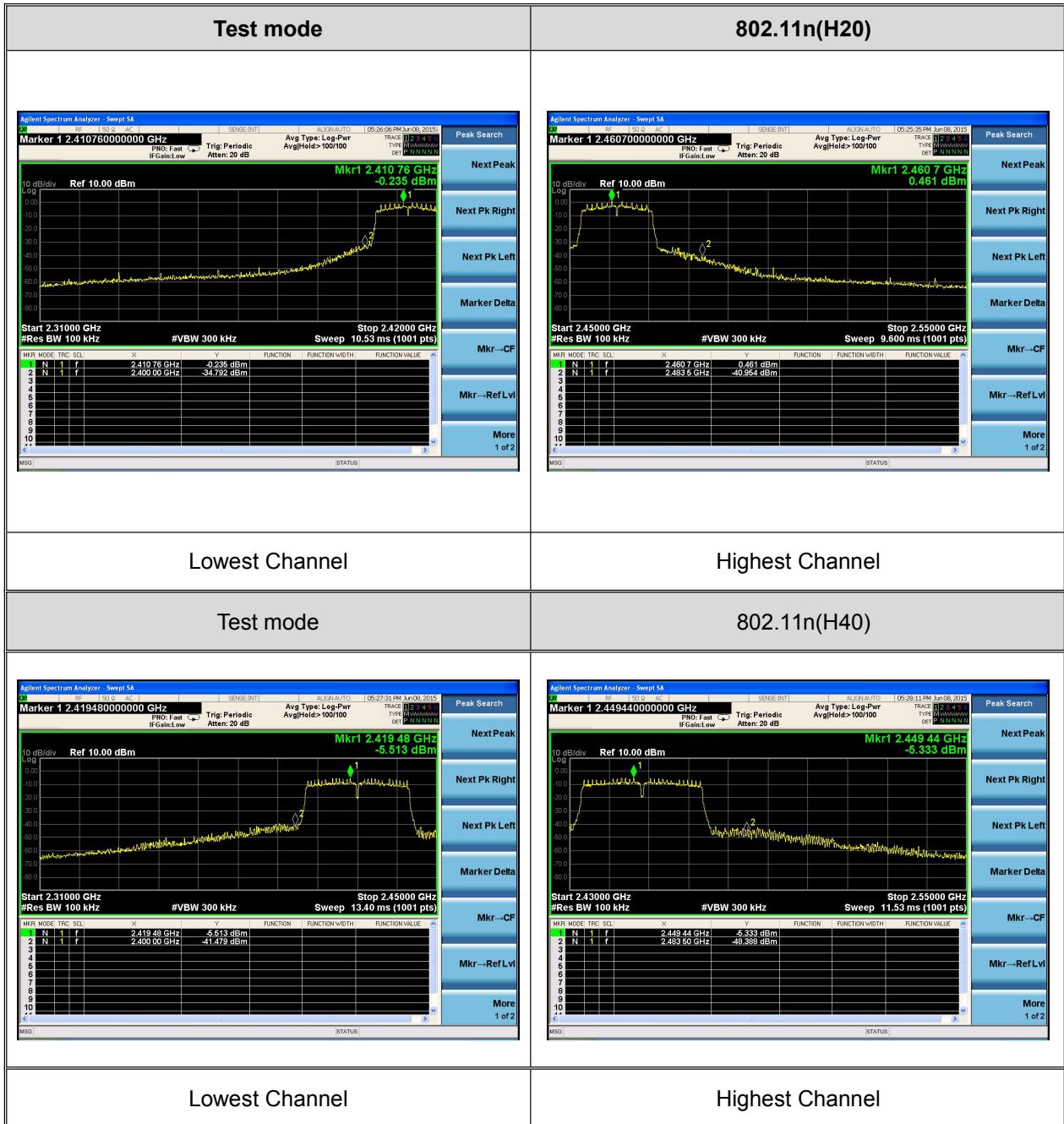




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## 9. Band Edge Requirement (Radiated Emission Method)

### 9.1. Test Standard and Limit

#### 9.1.1 Test Standard

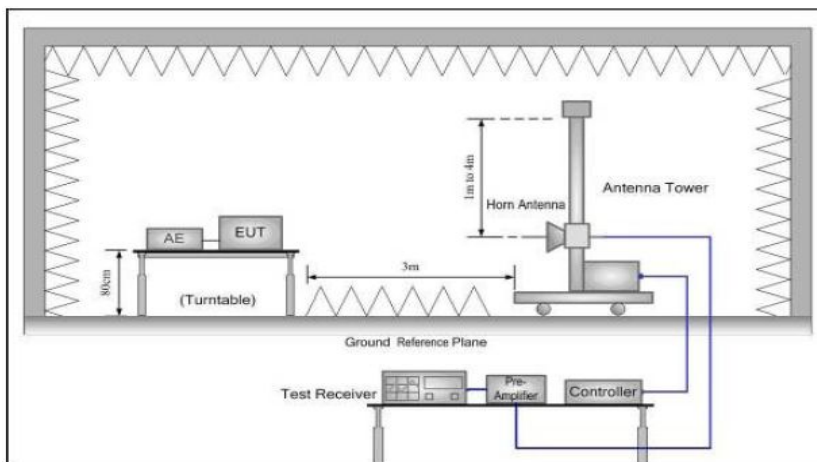
FCC Part15 C Section 15.209 and 15.205

#### 9.1.2 Test Limit

**Radiated Emission Test Limit**

Frequency	Limit (dB $\mu$ V/m @3m)	Remark
Above 1GHz	54.00	Average value
	74.00	Peak value

### 9.2. Test Setup



### 9.3. Test Procedure

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

## 9.4. Test Data

Test mode: 802.11b					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2390.00	23.7	27.58	5.67	0	56.95	74.00	17.05	H	PEAK
2390.00	23.17	27.58	5.67	0	56.42	74.00	17.58	V	PEAK
2390.00	12.04	27.58	5.67	0	45.29	54.00	8.71	H	AVG.
2390.00	12.25	27.58	5.67	0	45.5	54.00	8.5	V	AVG.
Test mode: 802.11b					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2483.50	23.78	27.52	5.7	0	57	74.00	17	H	PEAK
2483.50	23.46	27.52	5.7	0	56.68	74.00	17.32	V	PEAK
2483.50	11.93	27.52	5.7	0	45.15	54.00	8.85	H	AVG.
2483.50	12.05	27.52	5.7	0	45.27	54.00	8.73	V	AVG.



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Test mode: 802.11g					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2390.00	20.99	27.58	5.67	0	54.24	74.00	19.76	H	PEAK
2390.00	21.43	27.58	5.67	0	54.68	74.00	19.32	V	PEAK
2390.00	10.72	27.58	5.67	0	43.97	54.00	10.03	H	AVG.
2390.00	10.57	27.58	5.67	0	43.82	54.00	10.18	V	AVG.
Test mode: 802.11g					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2483.50	22.18	27.52	5.7	0	55.4	74.00	18.6	H	PEAK
2483.50	22.61	27.52	5.7	0	55.83	74.00	18.17	V	PEAK
2483.50	10.58	27.52	5.7	0	43.8	54.00	10.2	H	AVG.
2483.50	10.39	27.52	5.7	0	43.61	54.00	10.39	V	AVG.

Test mode: 802.11n(H20)					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2390.00	22.87	27.58	5.67	0	56.12	74.00	17.88	H	PEAK
2390.00	23.27	27.58	5.67	0	56.52	74.00	17.48	V	PEAK
2390.00	10.69	27.58	5.67	0	43.94	54.00	10.06	H	AVG.
2390.00	10.93	27.58	5.67	0	44.18	54.00	9.82	V	AVG.
Test mode: 802.11n(H20)					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2483.50	23.28	27.52	5.7	0	56.5	74.00	17.5	H	PEAK
2483.50	23.29	27.52	5.7	0	56.51	74.00	17.49	V	PEAK
2483.50	10	27.52	5.7	0	43.22	54.00	10.78	H	AVG.
2483.50	10.28	27.52	5.7	0	43.5	54.00	10.5	V	AVG.



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Test mode: 802.11n(H40)					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2390.00	22.84	27.58	5.67	0	56.09	74.00	17.91	H	PEAK
2390.00	23.24	27.58	5.67	0	56.49	74.00	17.51	V	PEAK
2390.00	11.17	27.58	5.67	0	44.42	54.00	9.58	H	AVG.
2390.00	11.29	27.58	5.67	0	44.54	54.00	9.46	V	AVG.
Test mode: 802.11n(H20)					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
2483.50	23.42	27.52	5.7	0	56.64	74.00	17.36	H	PEAK
2483.50	23.43	27.52	5.7	0	56.65	74.00	17.35	V	PEAK
2483.50	10.14	27.52	5.7	0	43.36	54.00	10.64	H	AVG.
2483.50	10.42	27.52	5.7	0	43.64	54.00	10.36	V	AVG.

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 10. Spurious Emission (Radiated Emission Method)

### 10.1 Test Standard and Limit

#### 10.1.1 Test Standard

FCC Part15 C Section 15.209 and 15.205

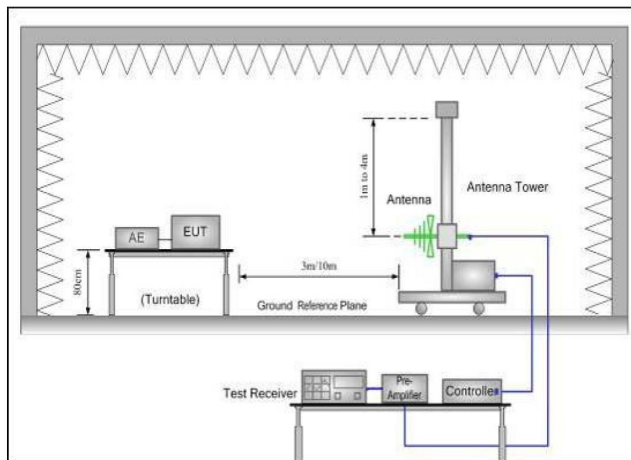
#### 10.1.2 Test Limit

Frequency (MHz)	Limit (dB $\mu$ V/m)	
	At 3m Distance	
30MHz~88MHz	40	Quasi-peak
88MHz~216MHz	43.5	Quasi-peak
216MHz~960MHz	46	Quasi-peak
960MHz~1000MHz	54	Quasi-peak
Above 1000MHz	54	Average
	74	Peak

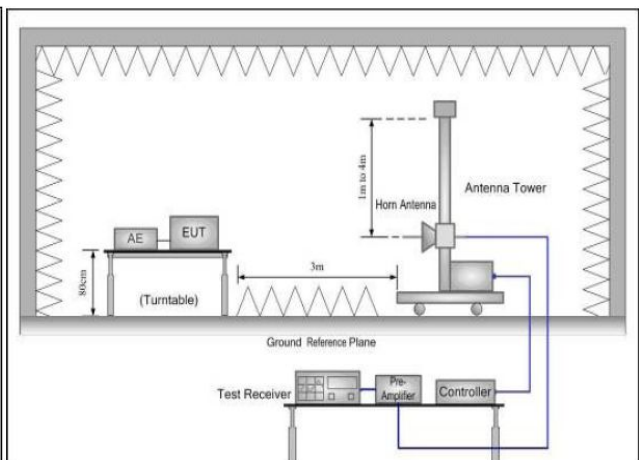
**Remark:** 1. The lower limit shall apply at the transition frequency.

### 10.2 Test Setup

#### Below 1GHz



#### Above 1GHz



### 10.3 Test Procedure

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.



- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

## 10.4 Test Data

Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
2. 9 kHz to 30MHz is noise floor, so only shows the data of above 30MHz in this report.





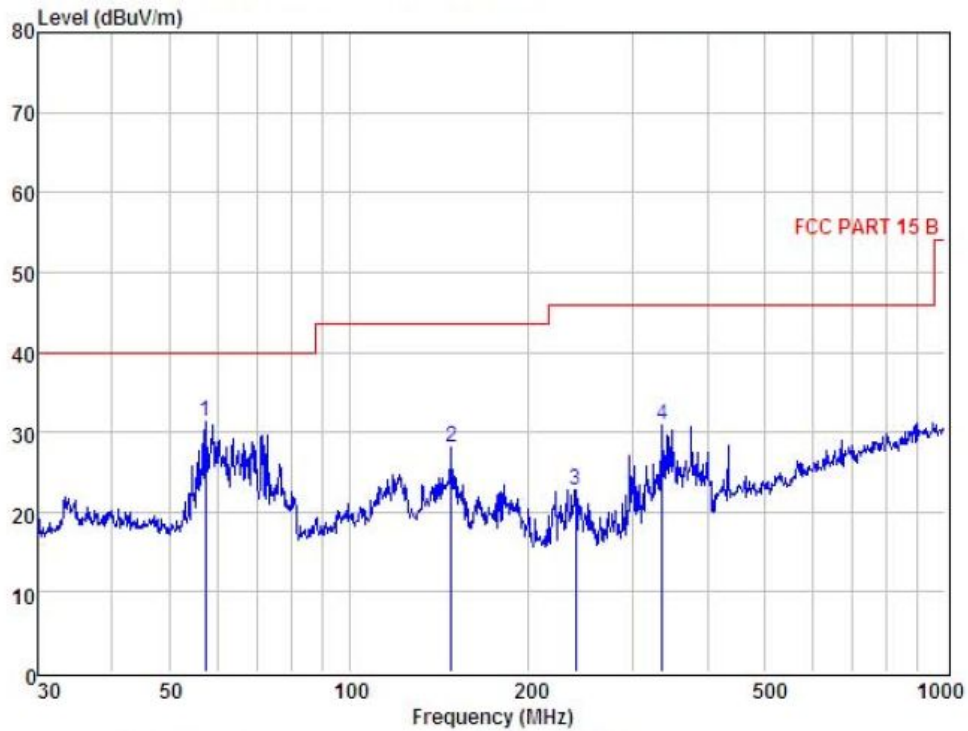
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## Radiated Emission Test Data (Below 1GHz)

EUT: Streaming Music Player M/N: X1  
 Operating Condition: WIFI mode  
 Test Site: 3m chamber  
 Operator: Tom  
 Test Specification: AC 120V/60Hz  
 Polarization: Horizontal  
 Note: Tem:25°C Hum:50%



Condition		: FCC PART 15 B			3m		POL: HORIZONTAL		
Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	57.39	49.97	12.91	31.77	0.14	31.25	40.00	-8.75	Peak
2	148.44	44.95	14.03	31.20	0.32	28.10	43.50	-15.40	Peak
3	239.99	41.58	11.45	30.75	0.53	22.81	46.00	-23.19	Peak
4	336.04	47.03	13.61	30.51	0.78	30.91	46.00	-15.09	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



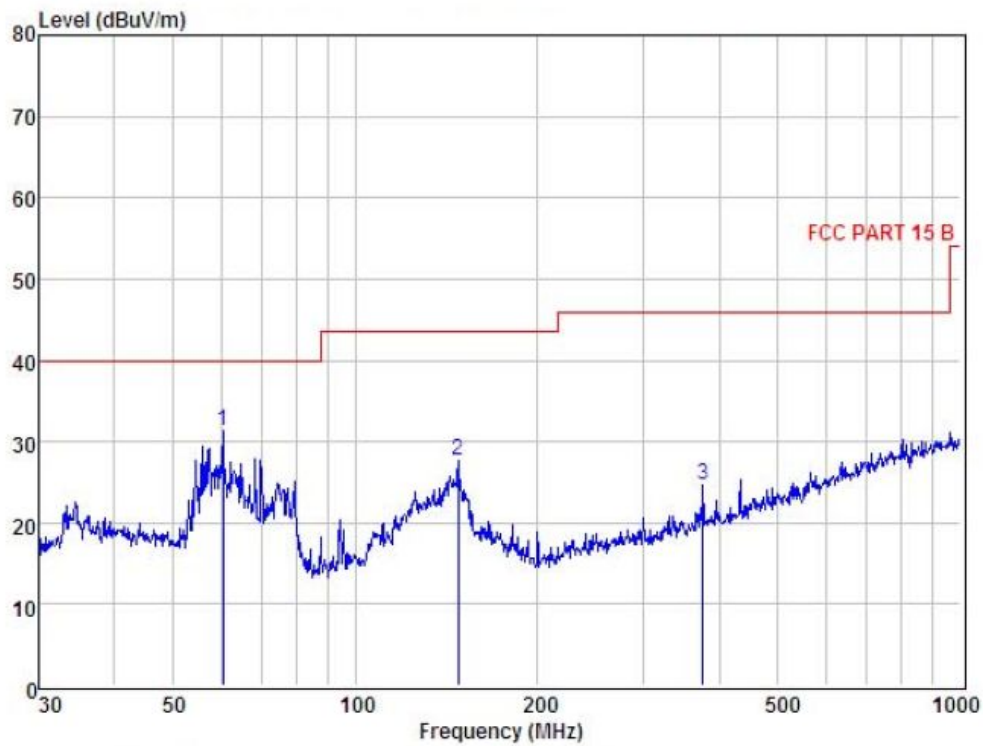
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## Radiated Emission Test Data (Below 1GHz)

EUT: Streaming Music Player M/N: X1  
 Operating Condition: WIFI mode  
 Test Site: 3m chamber  
 Operator: Tom  
 Test Specification: AC 120V/60Hz  
 Polarization: Vertical  
 Note: Tem:25°C Hum:50%



Condition : FCC PART 15 B									
Item	Freq	Read	Antenna	3m	Cable	POL: VERTICAL	Limit	Margin	Remark
	MHz	Level	Factor	Preamp	Loss	Level	dBuV	dBuV	
		dBuV	dB	Factor	dB	dBuV			
1	60.49	50.11	12.75	31.75	0.24	31.35	40.00	-8.65	Peak
2	147.92	44.56	14.03	31.20	0.32	27.71	43.50	-15.79	Peak
3	375.94	39.68	14.35	30.43	0.96	24.56	46.00	-21.44	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11b					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4824.00	42.84	31.53	8.9	40.24	43.03	74.00	-30.97	V	PEAK
7236.00	43.53	36.47	10.59	41.24	49.35	74.00	-24.65	V	PEAK
9648.00	*					74.00		V	PEAK
12060.00	*					74.00		V	PEAK
14472.00	*					74.00		V	PEAK
16884.00	*					74.00		V	PEAK
4824.00	45.04	31.54	8.92	40.22	45.28	74.00	-28.72	H	PEAK
7236.00	47.43	36.5	10.62	41.22	53.33	74.00	-20.67	H	PEAK
9648.00	*					74.00		H	PEAK
12060.00	*					74.00		H	PEAK
14472.00	*					74.00		H	PEAK
16884.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4824.00	33.35	31.54	8.92	40.22	33.59	54.00	-20.41	V	AVG.
7236.00	34.72	36.5	10.62	41.22	40.62	54.00	-13.38	V	AVG.
9648.00	*					54.00		V	AVG.
12060.00	*					54.00		V	AVG.
14472.00	*					54.00		V	AVG.
16884.00	*					54.00		V	AVG.
4824.00	35.21	31.54	8.92	40.22	35.45	54.00	-18.55	H	AVG.
7236.00	37.99	36.5	10.62	41.22	43.89	54.00	-10.11	H	AVG.
9648.00	*					54.00		H	AVG.
12060.00	*					54.00		H	AVG.
14472.00	*					54.00		H	AVG.
16884.00	*					54.00		H	AVG.

### Remark:

1. Final Level = Read Level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11b					Test channel: Middle				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	44.88	31.57	8.98	40.15	45.28	74.00	-28.72	V	PEAK
7311.00	48.75	36.48	10.68	41.16	54.75	74.00	-19.25	V	PEAK
9748.00	*					74.00		V	PEAK
12185.00	*					74.00		V	PEAK
14622.00	*					74.00		V	PEAK
17059.00	*					74.00		V	PEAK
4874.00	44.76	31.57	8.98	40.15	45.16	74.00	-28.84	H	PEAK
7311.00	46.47	36.48	10.68	41.16	52.47	74.00	-21.53	H	PEAK
9748.00	*					74.00		H	PEAK
12185.00	*					74.00		H	PEAK
14622.00	*					74.00		H	PEAK
17059.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	32.2	31.57	8.98	40.15	32.6	54.00	-21.40	V	AVG.
7311.00	36.02	36.48	10.68	41.16	42.02	54.00	-11.98	V	AVG.
9748.00	*					54.00		V	AVG.
12185.00	*					54.00		V	AVG.
14622.00	*					54.00		V	AVG.
17059.00	*					54.00		V	AVG.
4874.00	31.63	31.57	8.98	40.15	32.03	54.00	-21.97	H	AVG.
7311.00	33.71	36.48	10.68	41.16	39.71	54.00	-14.29	H	AVG.
9748.00	*					54.00		H	AVG.
12185.00	*					54.00		H	AVG.
14622.00	*					54.00		H	AVG.
17059.00	*					54.00		H	AVG.

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11b					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4924.00	43.88	31.61	9.04	40.08	44.45	74.00	-29.55	V	PEAK
7386.00	47.68	36.52	10.75	41.09	53.86	74.00	-20.14	V	PEAK
9848.00	*					74.00		V	PEAK
12310.00	*					74.00		V	PEAK
14772.00	*					74.00		V	PEAK
17234.00	*					74.00		V	PEAK
4924.00	43.72	31.61	9.04	40.08	44.29	74.00	-29.71	H	PEAK
7386.00	45.83	36.52	10.75	41.09	52.01	74.00	-21.99	H	PEAK
9848.00	*					74.00		H	PEAK
12310.00	*					74.00		H	PEAK
14772.00	*					74.00		H	PEAK
17234.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4924.00	32.04	31.61	9.04	40.08	32.61	54.00	-21.39	V	AVG.
7386.00	36.56	36.52	10.75	41.09	42.74	54.00	-11.26	V	AVG.
9848.00	*					54.00		V	AVG.
12310.00	*					54.00		V	AVG.
14772.00	*					54.00		V	AVG.
17234.00	*					54.00		V	AVG.
4924.00	32.76	31.61	9.04	40.08	33.33	54.00	-20.67	H	AVG.
7386.00	35.6	36.52	10.75	41.09	41.78	54.00	-12.22	H	AVG.
9848.00	*					54.00		H	AVG.
12310.00	*					54.00		H	AVG.
14772.00	*					54.00		H	AVG.
17234.00	*					54.00		H	AVG.

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11g					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4824.00	44.09	31.54	8.92	40.22	44.33	74.00	-29.67	V	PEAK
7236.00	46.08	36.5	10.62	41.22	51.98	74.00	-22.02	V	PEAK
9648.00	*					74.00		V	PEAK
12060.00	*					74.00		V	PEAK
14472.00	*					74.00		V	PEAK
16884.00	*					74.00		V	PEAK
4824.00	45.42	31.54	8.92	40.22	45.66	74.00	-28.34	H	PEAK
7236.00	42.78	36.5	10.62	41.22	48.68	74.00	-25.32	H	PEAK
9648.00	*					74.00		H	PEAK
12060.00	*					74.00		H	PEAK
14472.00	*					74.00		H	PEAK
16884.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4824.00	36.88	31.54	8.92	40.22	37.12	54.00	-16.88	V	AVG.
7236.00	36.28	36.5	10.62	41.22	42.18	54.00	-11.82	V	AVG.
9648.00	*					54.00		V	AVG.
12060.00	*					54.00		V	AVG.
14472.00	*					54.00		V	AVG.
16884.00	*					54.00		V	AVG.
4824.00	40.52	31.54	8.92	40.22	40.76	54.00	-13.24	H	AVG.
7236.00	35.29	36.5	10.62	41.22	41.19	54.00	-12.81	H	AVG.
9648.00	*					54.00		H	AVG.
12060.00	*					54.00		H	AVG.
14472.00	*					54.00		H	AVG.
16884.00	*					54.00		H	AVG.

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11g					Test channel: Middle				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	38.49	31.57	8.98	40.15	38.89	74.00	-35.11	V	PEAK
7311.00	41.02	36.48	10.68	41.16	47.02	74.00	-26.98	V	PEAK
9748.00	*					74.00		V	PEAK
12185.00	*					74.00		V	PEAK
14622.00	*					74.00		V	PEAK
17059.00	*					74.00		V	PEAK
4874.00	43.62	31.57	8.98	40.15	44.02	74.00	-29.98	H	PEAK
7311.00	42.87	36.48	10.68	41.16	48.87	74.00	-25.13	H	PEAK
9748.00	*					74.00		H	PEAK
12185.00	*					74.00		H	PEAK
14622.00	*					74.00		H	PEAK
17059.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	33.9	31.57	8.98	40.15	34.3	54.00	-19.70	V	AVG.
7311.00	33.28	36.48	10.68	41.16	39.28	54.00	-14.72	V	AVG.
9748.00	*					54.00		V	AVG.
12185.00	*					54.00		V	AVG.
14622.00	*					54.00		V	AVG.
17059.00	*					54.00		V	AVG.
4874.00	31.89	31.57	8.98	40.15	32.29	54.00	-21.71	H	AVG.
7311.00	31.09	36.48	10.68	41.16	37.09	54.00	-16.91	H	AVG.
9748.00	*					54.00		H	AVG.
12185.00	*					54.00		H	AVG.
14622.00	*					54.00		H	AVG.
17059.00	*					54.00		H	AVG.

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11g					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4924.00	41.97	31.61	9.04	40.08	42.54	74.00	-31.46	V	PEAK
7386.00	40.14	36.52	10.75	41.09	46.32	74.00	-27.68	V	PEAK
9848.00	*					74.00		V	PEAK
12310.00	*					74.00		V	PEAK
14772.00	*					74.00		V	PEAK
17234.00	*					74.00		V	PEAK
4924.00	41.9	31.61	9.04	40.08	42.47	74.00	-31.53	H	PEAK
7386.00	41.55	36.52	10.75	41.09	47.73	74.00	-26.27	H	PEAK
9848.00	*					74.00		H	PEAK
12310.00	*					74.00		H	PEAK
14772.00	*					74.00		H	PEAK
17234.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4924.00	32.99	31.61	9.04	40.08	33.56	54.00	-20.44	V	AVG.
7386.00	30.14	36.52	10.75	41.09	36.32	54.00	-17.68	V	AVG.
9848.00	*					54.00		V	AVG.
12310.00	*					54.00		V	AVG.
14772.00	*					54.00		V	AVG.
17234.00	*					54.00		V	AVG.
4924.00	30.89	31.61	9.04	40.08	31.46	54.00	-22.54	H	AVG.
7386.00	31.09	36.52	10.75	41.09	37.27	54.00	-16.73	H	AVG.
9848.00	*					54.00		H	AVG.
12310.00	*					54.00		H	AVG.
14772.00	*					54.00		H	AVG.
17234.00	*					54.00		H	AVG.

### Remark:

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.





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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11n(H20)					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4824.00	42.99	31.54	8.92	40.22	43.23	74.00	-30.77	V	PEAK
7236.00	39.98	36.5	10.62	41.22	45.88	74.00	-28.12	V	PEAK
9648.00	*					74.00		V	PEAK
12060.00	*					74.00		V	PEAK
14472.00	*					74.00		V	PEAK
16884.00	*					74.00		V	PEAK
4824.00	43.89	31.54	8.92	40.22	44.13	74.00	-29.87	H	PEAK
7236.00	42.09	36.5	10.62	41.22	47.99	74.00	-26.01	H	PEAK
9648.00	*					74.00		H	PEAK
12060.00	*					74.00		H	PEAK
14472.00	*					74.00		H	PEAK
16884.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4824.00	33.98	31.54	8.92	40.22	34.22	54.00	-19.78	V	AVG.
7236.00	33.19	36.5	10.62	41.22	39.09	54.00	-14.91	V	AVG.
9648.00	*					54.00		V	AVG.
12060.00	*					54.00		V	AVG.
14472.00	*					54.00		V	AVG.
16884.00	*					54.00		V	AVG.
4824.00	33.98	31.54	8.92	40.22	34.22	54.00	-19.78	H	AVG.
7236.00	34.91	36.5	10.62	41.22	40.81	54.00	-13.19	H	AVG.
9648.00	*					54.00		H	AVG.
12060.00	*					54.00		H	AVG.
14472.00	*					54.00		H	AVG.
16884.00	*					54.00		H	AVG.

**Remark:**

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11n(H20)					Test channel: Middle				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	40.9	31.57	8.98	40.15	41.3	74.00	-32.70	V	PEAK
7311.00	41.18	36.48	10.68	41.16	47.18	74.00	-26.82	V	PEAK
9748.00	*					74.00		V	PEAK
12185.00	*					74.00		V	PEAK
14622.00	*					74.00		V	PEAK
17059.00	*					74.00		V	PEAK
4874.00	40.9	31.57	8.98	40.15	41.3	74.00	-32.70	H	PEAK
7311.00	41.14	36.48	10.68	41.16	47.14	74.00	-26.86	H	PEAK
9748.00	*					74.00		H	PEAK
12185.00	*					74.00		H	PEAK
14622.00	*					74.00		H	PEAK
17059.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	33.88	31.57	8.98	40.15	34.28	54.00	-19.72	V	AVG.
7311.00	32.27	36.48	10.68	41.16	38.27	54.00	-15.73	V	AVG.
9748.00	*					54.00		V	AVG.
12185.00	*					54.00		V	AVG.
14622.00	*					54.00		V	AVG.
17059.00	*					54.00		V	AVG.
4874.00	31.94	31.57	8.98	40.15	32.34	54.00	-21.66	H	AVG.
7311.00	34.01	36.48	10.68	41.16	40.01	54.00	-13.99	H	AVG.
9748.00	*					54.00		H	AVG.
12185.00	*					54.00		H	AVG.
14622.00	*					54.00		H	AVG.
17059.00	*					54.00		H	AVG.

### Remark:

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11n(H20)					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4924.00	42.98	31.61	9.04	40.08	43.55	74.00	-30.45	V	PEAK
7386.00	42.19	36.52	10.75	41.09	48.37	74.00	-25.63	V	PEAK
9848.00	*					74.00		V	PEAK
12310.00	*					74.00		V	PEAK
14772.00	*					74.00		V	PEAK
17234.00	*					74.00		V	PEAK
4924.00	41.93	31.61	9.04	40.08	42.5	74.00	-31.50	H	PEAK
7386.00	41.63	36.52	10.75	41.09	47.81	74.00	-26.19	H	PEAK
9848.00	*					74.00		H	PEAK
12310.00	*					74.00		H	PEAK
14772.00	*					74.00		H	PEAK
17234.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4924.00	31.99	31.61	9.04	40.08	32.56	54.00	-21.44	V	AVG.
7386.00	33.82	36.52	10.75	41.09	40	54.00	-14.00	V	AVG.
9848.00	*					54.00		V	AVG.
12310.00	*					54.00		V	AVG.
14772.00	*					54.00		V	AVG.
17234.00	*					54.00		V	AVG.
4924.00	33.34	31.61	9.04	40.08	33.91	54.00	-20.09	H	AVG.
7386.00	32.18	36.52	10.75	41.09	38.36	54.00	-15.64	H	AVG.
9848.00	*					54.00		H	AVG.
12310.00	*					54.00		H	AVG.
14772.00	*					54.00		H	AVG.
17234.00	*					54.00		H	AVG.

### Remark:

1. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11n(H40)					Test channel: Lowest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4844.00	42.99	31.57	8.93	40.17	43.32	74.00	-29.48	V	PEAK
7266.00	39.98	36.62	10.65	41.19	46.06	74.00	-28.12	V	PEAK
9688.00	*					74.00		V	PEAK
12110.00	*					74.00		V	PEAK
14532.00	*					74.00		V	PEAK
16954.00	*					74.00		V	PEAK
4844.00	43.89	31.57	8.93	40.17	44.22	74.00	-29.78	H	PEAK
7266.00	42.09	36.62	10.65	41.19	48.17	74.00	-25.83	H	PEAK
9688.00	*					74.00		H	PEAK
12110.00	*					74.00		H	PEAK
14532.00	*					74.00		H	PEAK
16954.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4844.00	33.98	31.57	8.93	40.17	34.31	54.00	-19.69	V	AVG.
7266.00	33.19	36.62	10.65	41.19	39.27	54.00	-14.73	V	AVG.
9688.00	*					54.00		V	AVG.
12110.00	*					54.00		V	AVG.
14532.00	*					54.00		V	AVG.
16954.00	*					54.00		V	AVG.
4844.00	33.98	31.57	8.93	40.17	34.31	54.00	-19.69	H	AVG.
7266.00	34.91	36.62	10.65	41.19	40.99	54.00	-13.01	H	AVG.
9688.00	*					54.00		H	AVG.
12110.00	*					54.00		H	AVG.
14532.00	*					54.00		H	AVG.
16954.00	*					54.00		H	AVG.

**Remark:**

4. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
5. “\*”, means this data is the too weak instrument of signal is unable to test.
6. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11n(H40)					Test channel: Middle				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	40	31.57	8.98	40.15	40.4	74.00	-33.60	V	PEAK
7311.00	41.18	36.48	10.68	41.16	47.18	74.00	-26.82	V	PEAK
9748.00	*					74.00		V	PEAK
12185.00	*					74.00		V	PEAK
14622.00	*					74.00		V	PEAK
17059.00	*					74.00		V	PEAK
4874.00	38.85	31.57	8.98	40.15	39.25	74.00	-34.75	H	PEAK
7311.00	41.14	36.48	10.68	41.16	47.14	74.00	-26.86	H	PEAK
9748.00	*					74.00		H	PEAK
12185.00	*					74.00		H	PEAK
14622.00	*					74.00		H	PEAK
17059.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4874.00	30.9	31.57	8.98	40.15	31.3	54.00	-22.70	V	AVG.
7311.00	32.27	36.48	10.68	41.16	38.27	54.00	-15.73	V	AVG.
9748.00	*					54.00		V	AVG.
12185.00	*					54.00		V	AVG.
14622.00	*					54.00		V	AVG.
17059.00	*					54.00		V	AVG.
4874.00	31.83	31.57	8.98	40.15	32.23	54.00	-21.77	H	AVG.
7311.00	34.01	36.48	10.68	41.16	40.01	54.00	-13.99	H	AVG.
9748.00	*					54.00		H	AVG.
12185.00	*					54.00		H	AVG.
14622.00	*					54.00		H	AVG.
17059.00	*					54.00		H	AVG.

**Remark:**

4. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
5. “\*”, means this data is the too weak instrument of signal is unable to test.
6. The emission levels of other frequencies are very lower than the limit and not show in test report.



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## Radiated Emission Test Data (Above 1GHz)

Test mode: 802.11n(H40)					Test channel: Highest				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4904.00	39.73	31.68	9.13	39.98	40.56	74.00	-33.44	V	PEAK
7356.00	42.19	36.62	10.79	40.89	48.71	74.00	-25.29	V	PEAK
9808.00	*					74.00		V	PEAK
12260.00	*					74.00		V	PEAK
14712.00	*					74.00		V	PEAK
17164.00	*					74.00		V	PEAK
4904.00	38.98	31.68	9.13	39.98	39.81	74.00	-34.19	H	PEAK
7356.00	41.63	36.62	10.79	40.89	48.15	74.00	-25.85	H	PEAK
9808.00	*					74.00		H	PEAK
12260.00	*					74.00		H	PEAK
14712.00	*					74.00		H	PEAK
17164.00	*					74.00		H	PEAK
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Level
4904.00	32.25	31.68	9.13	39.98	33.08	54.00	-20.92	V	AVG.
7356.00	33.82	36.62	10.79	40.89	40.34	54.00	-13.66	V	AVG.
9808.00	*					54.00		V	AVG.
12260.00	*					54.00		V	AVG.
14712.00	*					54.00		V	AVG.
17164.00	*					54.00		V	AVG.
4904.00	34.89	31.68	9.13	39.98	35.72	54.00	-18.28	H	AVG.
7356.00	32.18	36.62	10.79	40.89	38.7	54.00	-15.30	H	AVG.
9808.00	*					54.00		H	AVG.
12260.00	*					54.00		H	AVG.
14712.00	*					54.00		H	AVG.
17164.00	*					54.00		H	AVG.

**Remark:**

4. Final Level = Read Level + Antenna Factor + Cable Loss – Pre-amplifier Factor
5. “\*”, means this data is the too weak instrument of signal is unable to test.
6. The emission levels of other frequencies are very lower than the limit and not show in test report.



## 11. Spurious Emission (Conducted Emission Method)

### 11.1 Test Standard and Limit

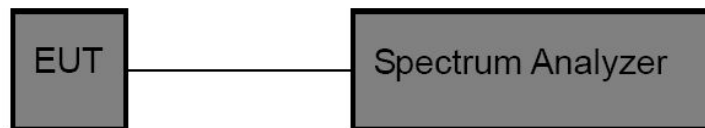
#### 11.1.1 Test Standard

FCC Part15 C Section 15.247 (d)

#### 11.1.2 Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 11.2 Test Setup



### 11.3 Test Procedure

According to KDB 558074 v03r02:

(1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.

(2) Spectrum Setting: RBW=100 KHz, VBW=300 KHz.

Frequency range from 30MHz to 25 GHz.

### 11.4 Test Data



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Modulation mode	802.11b	Frequency range	30MHz~25GHz	
Lowest	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 623.64000000 MHz Ref 10.00 dBm Mkr1 623.64 MHz -69.287 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Sweep 117.0 ms (1001 pts)</p>	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 2.416000000000 GHz Ref 10.00 dBm Mkr1 2.416 GHz 4.482 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 2.894 s (1001 pts)</p>	30MHz~1GHz	1GHz~25GHz
	Middle	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 975.75000000 MHz Ref 10.00 dBm Mkr1 975.75 MHz -71.057 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Sweep 117.0 ms (1001 pts)</p>	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 2.440000000000 GHz Ref 10.00 dBm Mkr1 2.440 GHz 4.187 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 2.894 s (1001 pts)</p>	30MHz~1GHz
Highest		<p>Agilent Spectrum Analyzer - Swept SA Marker 1 831.22000000 MHz Ref 10.00 dBm Mkr1 831.22 MHz -69.510 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Sweep 117.0 ms (1001 pts)</p>	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 2.464000000000 GHz Ref 10.00 dBm Mkr1 2.464 GHz 3.211 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 2.894 s (1001 pts)</p>	30MHz~1GHz





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Modulation mode	802.11g	Frequency range	30MHz~25GHz
Lowest			
	30MHz~1GHz	1GHz~25GHz	
Middle			
	30MHz~1GHz	1GHz~25GHz	
Highest			
	30MHz~1GHz	1GHz~25GHz	



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Modulation mode	802.11n(H20)	Frequency range	30MHz~25GHz	
Lowest	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 775.93000000 MHz Ref 10.00 dBm Mkr1 775.93 MHz -70.949 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Stop 1.0000 GHz Sweep 117.0 ms (1001 pts)</p>	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 2.416000000000 GHz Ref 10.00 dBm Mkr1 2.416 GHz -3.247 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Stop 25.00 GHz Sweep 2.894 s (1001 pts)</p>	30MHz~1GHz	1GHz~25GHz
	Middle	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 827.34000000 MHz Ref 10.00 dBm Mkr1 827.34 MHz -67.592 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Stop 1.0000 GHz Sweep 117.0 ms (1001 pts)</p>	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 2.440000000000 GHz Ref 10.00 dBm Mkr1 2.440 GHz 0.226 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Stop 25.00 GHz Sweep 2.894 s (1001 pts)</p>	30MHz~1GHz
Highest		<p>Agilent Spectrum Analyzer - Swept SA Marker 1 837.04000000 MHz Ref 10.00 dBm Mkr1 837.04 MHz -70.447 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Stop 1.0000 GHz Sweep 117.0 ms (1001 pts)</p>	<p>Agilent Spectrum Analyzer - Swept SA Marker 1 2.464000000000 GHz Ref 10.00 dBm Mkr1 2.464 GHz -1.498 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Stop 25.00 GHz Sweep 2.894 s (1001 pts)</p>	30MHz~1GHz



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Modulation mode	802.11n(H40)	Frequency range	30MHz~25GHz	
Lowest	<p>Agilent Spectrum Analyzer - Sweep SA Marker 1 501.42000000 MHz Ref 10.00 dBm Mkr1 501.42 MHz -70.974 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Stop 1.0000 GHz Sweep 117.0 ms (1001 pts)</p>	<p>Peak Search Next Peak Next Pk Right Next Pk Left Marker Del Mkr--C Mkr--RefL</p>	<p>Agilent Spectrum Analyzer - Sweep SA Marker 1 2.4160000000 GHz Ref 10.00 dBm Mkr1 2.416 GHz -6.039 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Stop 25.00 GHz Sweep 2.894 s (1001 pts)</p>	<p>Peak Search Next Peak Next Pk Right Next Pk Left Marker Del Mkr--C Mkr--RefL</p>
	30MHz~1GHz	1GHz~25GHz		
Middle	<p>Agilent Spectrum Analyzer - Sweep SA Marker 1 864.20000000 MHz Ref 10.00 dBm Mkr1 864.20 MHz -70.526 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Stop 1.0000 GHz Sweep 117.0 ms (1001 pts)</p>	<p>Peak Search Next Peak Next Pk Right Next Pk Left Marker Del Mkr--C Mkr--RefL</p>	<p>Agilent Spectrum Analyzer - Sweep SA Marker 1 2.4400000000 GHz Ref 10.00 dBm Mkr1 2.440 GHz -3.980 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Stop 25.00 GHz Sweep 2.894 s (1001 pts)</p>	<p>Peak Search Next Peak Next Pk Right Next Pk Left Marker Del Mkr--C Mkr--RefL</p>
	30MHz~1GHz	1GHz~25GHz		
Highest	<p>Agilent Spectrum Analyzer - Sweep SA Marker 1 949.56000000 MHz Ref 10.00 dBm Mkr1 949.56 MHz -68.530 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 100 kHz Stop 1.0000 GHz Sweep 117.0 ms (1001 pts)</p>	<p>Peak Search Next Peak Next Pk Right Next Pk Left Marker Del Mkr--C Mkr--RefL</p>	<p>Agilent Spectrum Analyzer - Sweep SA Marker 1 2.4400000000 GHz Ref 10.00 dBm Mkr1 2.440 GHz -6.822 dBm Start 1.00 GHz #Res BW 100 kHz #VBW 100 kHz Stop 25.00 GHz Sweep 2.894 s (1001 pts)</p>	<p>Peak Search Next Peak Next Pk Right Next Pk Left Marker Del Mkr--C Mkr--RefL</p>
	30MHz~1GHz	1GHz~25GHz		