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CH Hig:



IEEE 802.11n HT20 :

CH Low:





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CH Mid:



CH Hig:





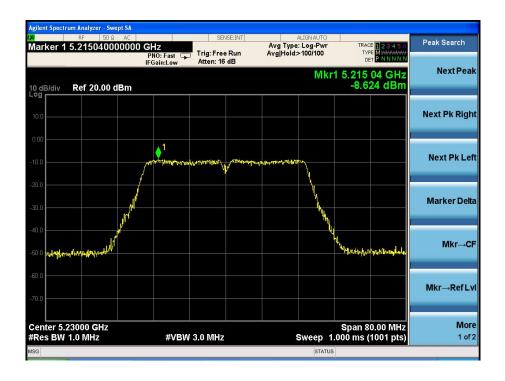
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IEEE 802.11n HT40 :

CH Low:



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IEEE 802.11ac:

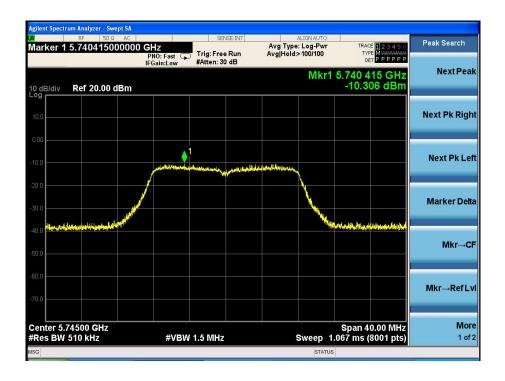




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IEEE 802.11a with 5.8G:

CH Low:



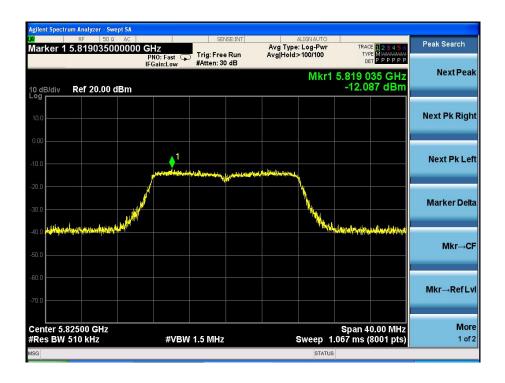
CH Mid:





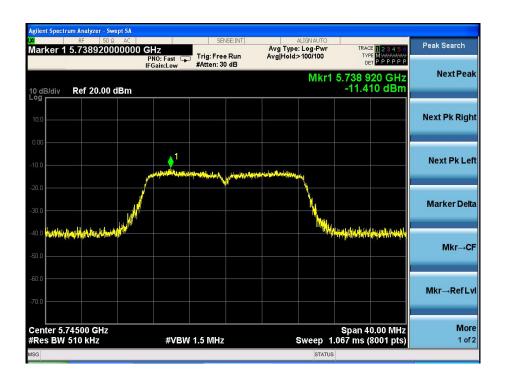
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CH Hig:



IEEE 802.11n HT20 with 5.8G:

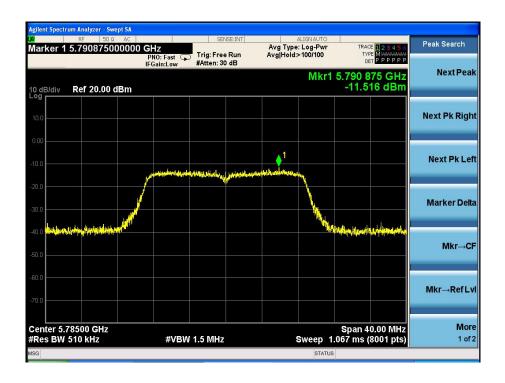
CH Low:





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CH Mid:



CH Hig:

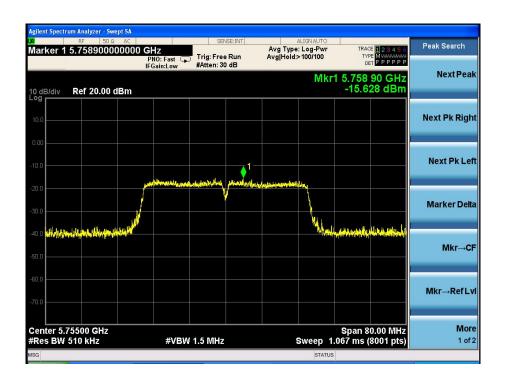




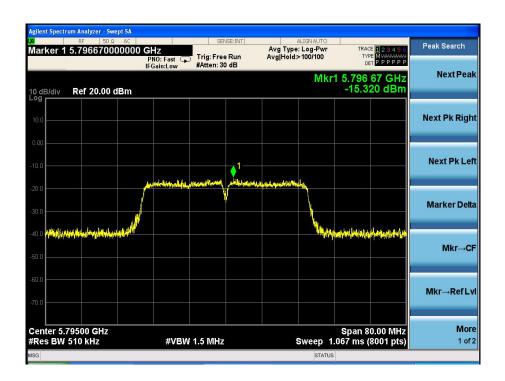
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IEEE 802.11n HT40 with 5.8G:

CH Low:



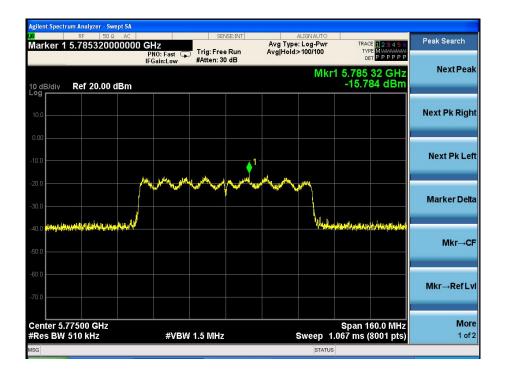
CH Hig:





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IEEE 802.11ac with 5.8G:





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8. Band Edge Requirement (Radiated Emission Method)

8.1 Test Standard and Limit

8.1.1 Test Standard

FCC Part15 C Section 15.407

8.1.2 Test Limit

Except as shown in paragraph (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

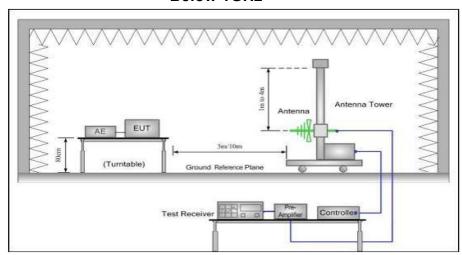
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits



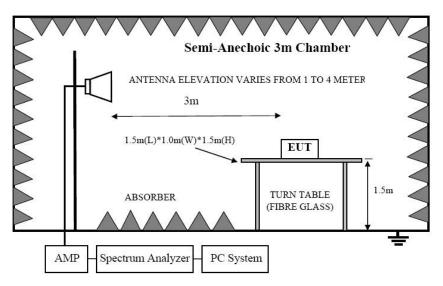
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8.2 Test Setup

Below 1GHz



Above 1GHz



8.3 Test Procedure

- 8.3.1 Put the EUT on a 0.8m high table for below 1GHz, and 1.5m high table for above 1GHz, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 8.3.2 Check the spurious emissions out of band.
- 8.3.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz , RMS detector for AV value.



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8.4 Test Data

5.2G Band

Radiated Method:

IEEE 802.11a CH LOW

Band Edge Te	est result							
Antenna polar	ity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150	43.3	31.65	5.92	33.9	46.97	68.2	21.23	PK
				-				
Antenna Polar	ity: Horizon	tal						
5150	42.39	31.65	5.92	33.9	46.06	68.2	22.14	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP [dBm] = [dBuV/m] -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.



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IEEE 802.11a CH High

Band Edge Te	est result							
Antenna polar	ity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5350	43.7	31.73	6.05	33.73	47.75	68.2	20.45	PK
						-		
Antenna Polar	rity: Horizon	tal						
5350	41.78	31.73	6.05	33.73	45.83	68.2	22.37	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP [dBm] = [dBuV/m] -95.2, thus, limit for 5350MHz band is -27+95.2=68.2 dBuV/m.



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IEEE 802.11n HT20 CH Low

Band Edge Te	est result							
Antenna polar	ity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150	42.98	31.65	5.92	33.9	46.65	68.2	21.55	PK
						-		
Antenna Polar	ritv: Horizon	tal						
5150	41.67	31.65	5.92	33.9	45.34	68.2	22.86	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP [dBm] = [dBuV/m] -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.



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IEEE 802.11n HT20 CH High

Band Edge Te	est result							
Antenna polar	rity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5350	42.7	31.73	6.05	33.73	46.75	68.2	21.45	PK
				1				
Antenna Polai	rity: Horizon	tal						
5350	41.16	31.73	6.05	33.73	45.21	68.2	22.99	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP [dBm] = [dBuV/m] -95.2, thus, limit for 5350MHz band is -27+95.2=68.2 dBuV/m.



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IEEE 802.11n HT40 CH Low

Band Edge Te	est result							
Antenna polar	rity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150	42.34	31.65	5.92	33.9	46.01	68.2	22.19	PK
Antenna Pola	rity: Horizon	tal						
5150	42.47	31.65	5.92	33.9	46.14	68.2	22.06	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP [dBm] = [dBuV/m] -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.



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IEEE 802.11n HT40 CH High

Band Edge Te	est result							
Antenna polar	rity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5350	45.2	31.73	6.05	33.73	49.25	68.2	18.95	PK
				1		-		
Antenna Polai	rity: Horizon	tal						
5350	42.63	31.73	6.05	33.73	46.68	68.2	21.52	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP [dBm] = [dBuV/m] -95.2, thus, limit for 5350MHz band is -27+95.2=68.2 dBuV/m.



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IEEE 802.11ac

Band Edge Te	est result							
Antenna polar	rity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150	42.83	31.65	5.92	33.9	46.5	68.2	21.7	PK
5350	42.2	31.73	6.05	33.73	46.25	68.2	21.95	PK
Antenna Pola	⊥ rity: Horizon	tal						
5150	42.17	31.65	5.92	33.9	45.84	68.2	22.36	PK
5350	42.63	31.73	6.05	33.73	46.68	68.2	21.52	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP [dBm] = [dBuV/m] -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.



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5.8G Band

Radiated Method:

IEEE 802.11a CH LOW

Band Edge Te	est result							
Antenna polar	rity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460	41.34	31.81	6.11	33.68	45.58	68.2	22.62	PK
5725	42.65	32.17	6.26	33.58	47.5	78.2	30.7	PK
		I				-		
Antenna Pola	rity: Horizon	tal						
5460	41.25	31.81	6.11	33.68	45.49	68.2	22.71	PK
5725	43.2	32.17	6.26	33.58	48.05	78.2	30.15	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP 【dBm】=E 【dBuV/m】-95.2, thus, limit for 5460MHz is -27+95.2=68.2 dBuV/m. Limit for 5725MHz is -17+95.2=78.2 dBuV/m.



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IEEE 802.11a CH High

Band Edge Te	est result							
Antenna polar	ity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5850	41.7	32.5	6.33	33.64	46.89	78.2	31.31	PK
						-		
Antenna Polar	ity: Horizon	tal						
5850	41.57	32.5	6.33	33.64	46.76	78.2	31.44	PK
				-				

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP \d dBm $\$ =E \d dBuV/m $\$ -95.2, thus, limit for 5460MHz is -27+95.2=68.2 dBuV/m. Limit for 5850MHz is -17+95.2=78.2 dBuV/m.



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IEEE 802.11n HT20 CH Low

Band Edge Te	Band Edge Test result									
Antenna polar	ity: Vertical									
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark		
5460	40.86	31.81	6.11	33.68	45.1	68.2	23.1	PK		
5725	42.76	32.17	6.26	33.58	47.61	78.2	30.59	PK		
Antenna Polar	rity: Horizon	tal								
5460	41.19	31.81	6.11	33.68	45.43	68.2	22.77	PK		
5725	42.7	32.17	6.26	33.58	47.55	78.2	30.65	PK		

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP \d dBm $\$ =E \d dBuV/m $\$ -95.2, thus, limit for 5460MHz is -27+95.2=68.2 dBuV/m. Limit for 5725MHz is -17+95.2=78.2 dBuV/m.



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IEEE 802.11n HT20 CH High

Band Edge Te	est result							
Antenna polar	rity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5850	42.67	32.5	6.33	33.64	47.86	78.2	30.34	PK
				-				
Antenna Polai	rity: Horizon	tal						
5850	41.99	32.5	6.33	33.64	47.18	78.2	31.02	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP \d dBm $\ = E \d$ dBuV/m $\ -95.2$, thus, limit for 5460MHz is -27+95.2=68.2 dBuV/m. Limit for 5850MHz is -17+95.2=78.2 dBuV/m.



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IEEE 802.11n HT40 CH Low

Band Edge Te	est result							
Antenna polar	ity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460	41.12	31.81	6.11	33.68	45.36	68.2	22.84	PK
5725	43.06	32.17	6.26	33.58	47.91	78.2	30.29	PK
				1				
Antenna Polar	rity: Horizon	tal						
5460	41.34	31.81	6.11	33.68	45.58	68.2	22.62	PK
5725	42.7	32.17	6.26	33.58	47.55	78.2	30.65	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP \d dBm $\ = E \d$ dBuV/m $\ -95.2$, thus, limit for 5460MHz is -27+95.2=68.2 dBuV/m. Limit for 5725MHz is -17+95.2=78.2 dBuV/m.



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IEEE 802.11n HT40 CH High

Band Edge Te	est result							
Antenna polar	rity: Vertical							
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5850	42.36	32.5	6.33	33.64	47.55	78.2	30.65	PK
		-				-		
Antenna Polai	rity: Horizon	tal						
5850	41.84	32.5	6.33	33.64	47.03	78.2	31.17	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Note: According to KDB 789033, EIRP \dBm =E \dBuV/m -95.2, thus, limit for 5460MHz is -27+95.2=68.2 dBuV/m. Limit for 5850MHz is -17+95.2=78.2 dBuV/m.



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IEEE 802.11ac

Band Edge Test result											
Antenna polar	ity: Vertical										
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark			
5460	41.93	31.81	6.11	33.68	46.17	68.2	22.03	PK			
5725	43.19	32.17	6.26	33.58	48.04	78.2	30.16	PK			
5850	42.65	32.5	6.33	33.64	47.84	78.2	30.36	PK			
					-						
Antenna Polai	rity: Horizon	tal						I			
5460	40.8	31.81	6.11	33.68	45.04	68.2	23.16	PK			
5725	42.92	32.1 7	6.26	33.58	47.77	78.2	30.43	PK			
5850	42.46	32.5	6.33	33.64	47.65	78.2	30.55	PK			

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Result = Read level + Antenna factor + cable loss-Amp factor
- 3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

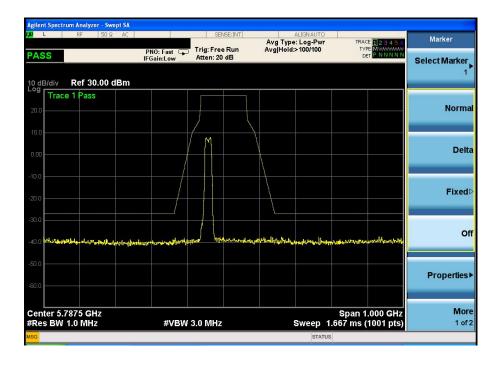
Note: According to KDB 789033, EIRP \d dBm $\ = E \d$ dBuV/m $\ -95.2$, thus, limit for 5460MHz is -27+95.2=68.2 dBuV/m. Limit for 5725MHz is -17+95.2=78.2 dBuV/m.

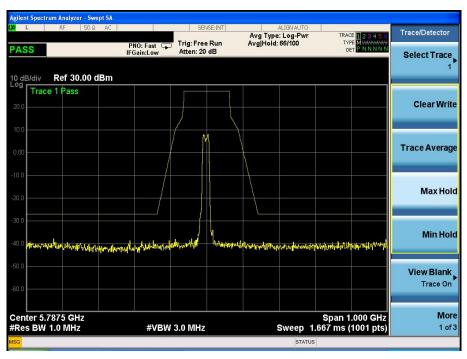


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Emission Mask of 5.8GHz

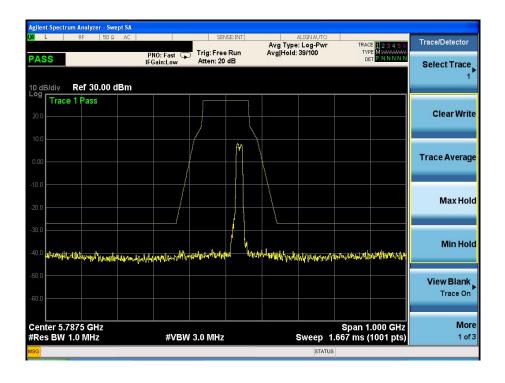
802.11a



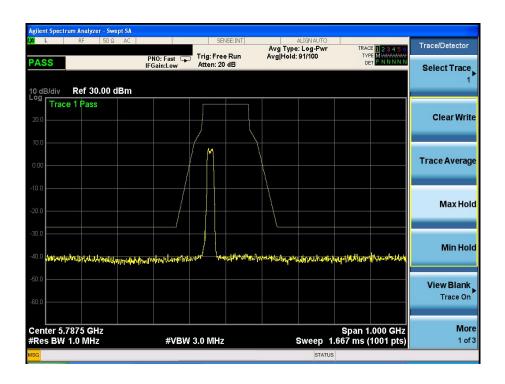




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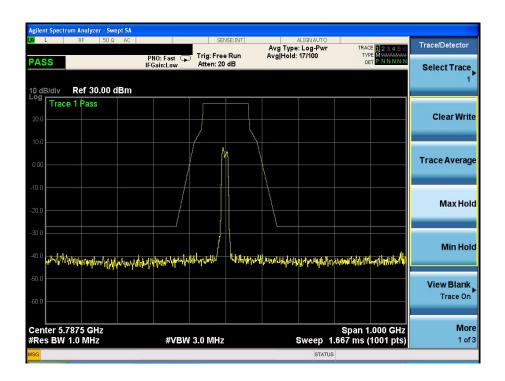


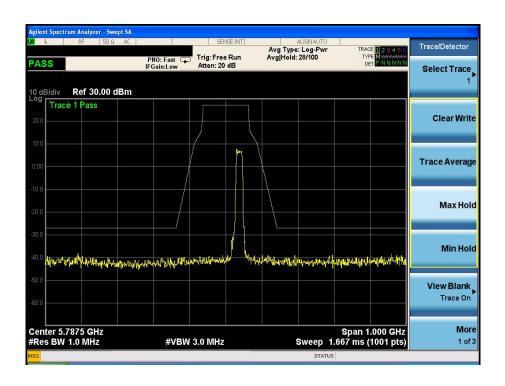
802.11n20





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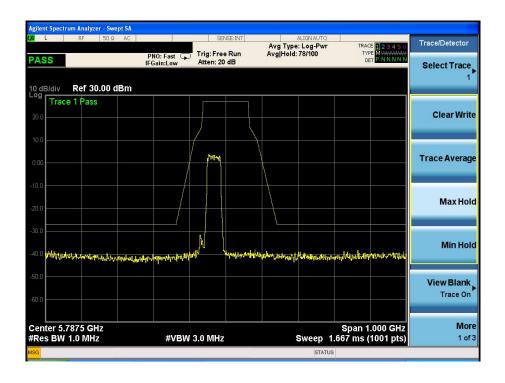


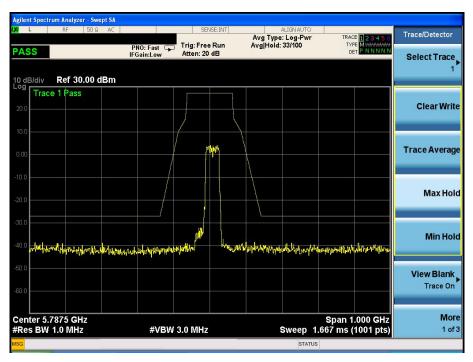




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802.11n40

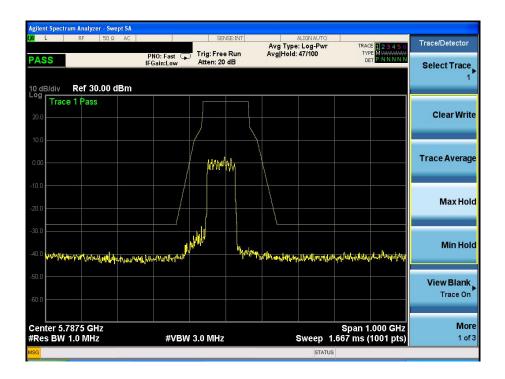






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9. Spurious Emission (Radiated Emission Method)

9.1 Test Standard and Limit

9.1.1 Test Standard

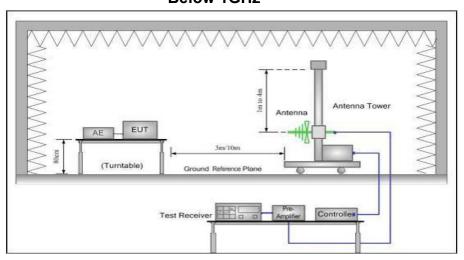
FCC Part15 C Section 15.209 and 15.205

9.1.2 Test Limit

Frequency	Limit (dBμV/m)								
(MHz)	At 3m Distance								
30MHz~88MHz	40	Quasi-peak							
88MHz~216MHz	43.5	Quasi-peak							
216MHz~960MHz	46	Quasi-peak							
960MHz~1000MHz	54	Quasi-peak							
A h avea 4000ML I -	54	Average							
Above 1000MHz	74	Peak							
Remark: 1. The lower limit shall apply at the transition fre	emark: 1. The lower limit shall apply at the transition frequency.								

9.2 Test Setup

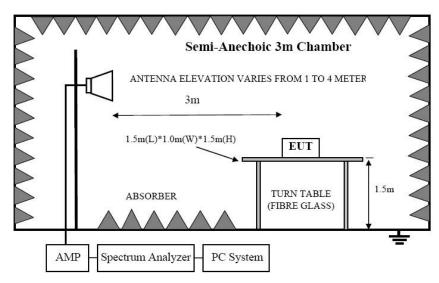
Below 1GHz





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Above 1GHz



9.3 Test Procedure

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz and 1.5 meters above the ground for above 1GHz at a 3 meter semi-anechoic camber. 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.

9.4 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: Smart TV BOX M/N: X98PRO

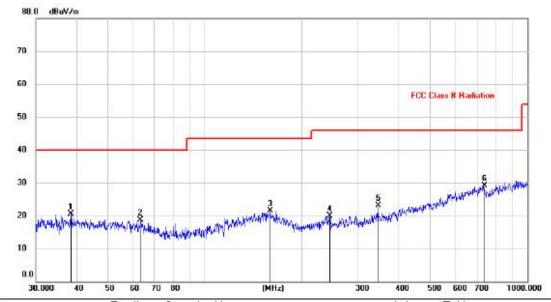
Operating Condition: WIFI mode
Test Site: 3m chamber

Operator: Jason

Test Specification: AC 120V/60Hz

Polarization: Horizontal

Note Tem:25℃ Hum:50%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree				
		MHz	MHz	MHz	MHz	dBu∀	dB	dBuV/m	dBuV/m	n dB	Detector	cm	degree	Comment
1		38,4809	6.43	13.99	20.42	40.00	-19.58	peak						
2		63.3132	6,59	12.20	18.79	40.00	-21.21	peak						
3	8	159.2251	6.97	14.58	21.55	43.50	-21.95	peak						
4		244.2321	7.88	12.01	19.89	46.00	-26.11	peak						
5	9.	344.3855	8.60	14.43	23.03	46.00	-22.97	peak						
6	*	731.9203	7.83	21.37	29.20	46.00	-16.80	peak						



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Radiated Emission Test Data (Below 1GHz)

EUT: Smart TV BOX M/N: X98PRO

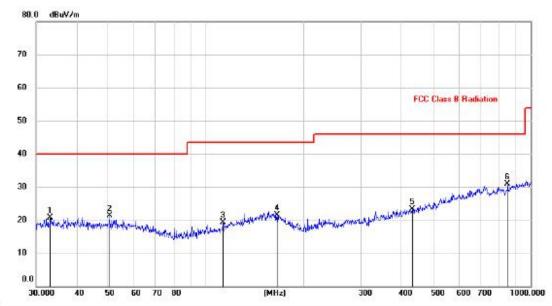
Operating Condition: WIFI mode
Test Site: 3m chamber

Operator: Jason

Test Specification: AC 120V/60Hz

Polarization: Vertical

Note Tem:25°C Hum:50%



No. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBu∀	dΒ	dBu√⁄m	dBuV/m	dB	Detector	cm	degree	Comment
1	33.3278	7.29	13.44	20.73	40.00	-19.27	peak			
2	50.4089	7.56	13.68	21.24	40.00	-18.76	peak			
3	113.3161	7.38	11.87	19.25	43.50	-24.25	peak			
4	165,4866	7.28	14.13	21.41	43.50	-22.09	peak			
5	434.0649	6.97	16.37	23.34	46.00	-22.66	peak			
6 *	848.0561	8.32	22.68	31.00	46.00	-15.00	peak			



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Radiated Emission Test Data (Above 1GHz)

IEEE 802.11a with 5.2G Low

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Acti	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
10360	>	47.66		2.36	50.02	-	74	1	23.98	Peak
15540	V	36.22		4.52	40.74	-	74	1	33.26	Peak
1407	V	45.27		-7.02	38.25	1	74	1	35.75	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV/ m)	Ant. / CL CF (dB)	Pe	etual Fs AV (dBuV/m))	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remar k
10360	Η	47.86	-	2.36	50.22		74	1	23.78	Peak
15540	Н	37.89		4.52	42.41		74	1	31.59	Peak
1407	V	44.49		-7.02	37.47		74	1	36.53	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.



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IEEE 802.11a with 5.2G Middle

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL CF	Actual Fs		Pea k	AV Limit	Margin (dB)	Remar
	H/V	Readin g (dBuV/	g (dBuV /m)	(dB)	Pea k (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	(dBuV/m)		k
10400	V	49.08		2.36	51.44		74	1	22.56	Peak
15600	V	36.99	-	4.52	41.51		74	1	32.49	Peak
1407	V	45.26		-7.02	38.24		74	1	35.76	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/	AV Readin g (dBuV	Ant. / CL CF (dB	Pea k (dBuV/	AV (dBuV/ m)	Pea k Limit (dBuV/	AV Limit (dBuV/ m)	Margin (dB)	Remar k
		(abuv/	/m))	m)		m)			
10400	Н	48.19		2.36	50.55		74	1	23.45	Peak
15600	Н	38.19	I	4.52	42.71	I	74	1	31.29	Peak
1407	V	45.65		-7.02	38.63		74	1	35.37	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 Db below the permissible value are not reported.



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IEEE 802.11a with 5.2G High

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV/ m)	Ant. / CL CF (Db	Actu Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	Limit	Margin (Db)	Remar k
10480	V	51.19		2.36	53.55	-	74	1	20.45	Peak
15720	V	34.91		4.52	39.43		74	1	34.57	Peak
1407	V	45.35		-7.02	38.33	-	74	1	35.67	Peak
'N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	Limit	Margin (dB)	Remar k
10480	Н	47.18		2.36	49.54		74	1	24.46	Peak
15720	Н	36.22		4.52	40.74		74	1	33.26	Peak
1407	V	45.35		-7.02	38.33		74	/	35.67	Peak
N/A										



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IEEE 802.11n/HT20 with 5.2G Low

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remar k
10360	V	48.41		2.36	50.77		74	1	23.23	Peak
15540	V	36.91		4.52	41.43		74	/	32.57	Peak
1407	V	45.29		-7.02	38.27		74	/	35.73	Peak
N/A									·	

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g	AV Readin g (dBuV	Ant. / CL CF (dB)	Act Pea	ual Fs AV (dBuV/m)	(abuv/	AV Limit (dBuV/ m)	Margin (dB)	Remar k
10360	Н	(dBuV/ 50.28	/m)	2.36) 52.64		m)	,	21.36	Peak
15540	<u>п</u> Н	36.03		4.52	40.5455		74 74	/	33.45	Peak
1407	V	45.59		-7.02	38.57		74	1	35.43	Peak
N/A										



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IEEE 802.11n/HT20 with 5.2G Middle

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margi n (dB)	Remark
10400	V	49.16		2.36	51.52		74	1	22.48	Peak
15600	V	37.91		4.52	42.43		74	1	31.57	Peak
1407	V	45.54		-7.02	38.52		74	1	35.48	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
10400	Ι	49.17		2.36	51.53		74	1	22.47	Peak
15600	Ι	35.95		4.52	40.47		74	1	33.53	Peak
1407	٧	45.56		-7.02	38.54		74	1	35.46	Peak
N/A										



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IEEE 802.11n/HT20 with 5.2G High

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Acti Pea	ual Fs AV (dBuV/m))	Pea k Limit (dBuV/m)	Limit	Margin (dB)	Remar k
10480	V	50.35		2.36	52.71		74	1	21.29	Peak
15720	V	37.07	-	4.52	41.59		74	1	32.41	Peak
1407	V	45.38		-7.02	38.36		74	1	35.64	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m))	Pea k Limit (dBuV/m)	Limit	Margin (dB)	Remar k
10480	Н	49.08		2.36	51.44		74	1	22.56	Peak
15720	Ι	35.02	-	4.52	39.54		74	1	34.46	Peak
1407	>	45.65		-7.02	38.63		74	1	35.37	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.



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IEEE 802.11n/HT40 with 5.2G Low

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remar k
10380	V	49.18		2.36	51.54		74	1	22.46	Peak
15570	V	37.05		4.52	41.57		74	1	32.43	Peak
1407	V	45.47		-7.02	38.45		74	1	35.55	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Acti Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remar k
10380	Н	50.18		2.36	52.54		74	1	21.46	Peak
15570	Н	35.72		4.52	40.24		74	1	33.76	Peak
1407	V	45.48		-7.02	38.46		74	1	35.54	Peak
N/A										



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IEEE 802.11n/HT40 with 5.2G High

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Acti Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	Limit	Margin (dB)	Remar k
10460	٧	50.21		2.36	52.57		74	1	21.43	Peak
15690	٧	35.92		4.52	40.44		74	1	33.56	Peak
1407	٧	45.34		-7.02	38.32		74	1	35.68	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remar k
10460	Н	49.97		2.36	52.33		74	1	21.67	Peak
15690	Н	36.97		4.52	41.49		74	1	32.51	Peak
1407	V	45.64		-7.02	38.62		74	1	35.38	Peak
N/A										



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IEEE 802.11ac with 5.2G

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remar k
10460	V	48.42		2.42	50.84		74	/	23.16	Peak
15570	V	37.23		4.52	41.75		74	1	32.25	Peak
1407	V	45.35		-7.02	38.33		74	/	35.67	Peak
N/A										

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL CF	Act	ual Fs	Pea k	AV Limit	Margin (dB)	
(**** :=)	H/V	Readin	g	(dB	Pea k	AV (dBuV/m	Limit	/ alD: :\//re	, ,	Remar k
10460	Η	49.26	-	2.42	51.6754		74	1	22.32	Peak
15570	Ι	35.91	I	4.52	40.43		74	1	33.57	Peak
1407	>	45.67	-	-7.02	38.65		74	1	35.35	Peak
N/A										



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IEEE 802.11a with 5.8G Low

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remark
		m)	,	·						
11490	٧	50.22		2.36	52.58		74	/	21.42	Peak
17235	V	38.22		4.52	42.74		74	/	31.26	Peak
1407	V	45.49		-7.02	38.47		74	1	35.53	Peak
N/A										

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL	Act	ual Fs	Pea k	AV Limit	Margin (dB)	Remar
	H/V	Readin g (dBuV/ m)	g (dBuV /m)	CF (dB)	Pea k (dBuV/ m)	AV (dBuV/ m)	Limit (dBuV/ m)	(dBuV/ m)		k
11490	Τ	50.08	-	2.36	52.44	-	74	1	21.56	Peak
17235	Τ	37.11	-	4.52	41.63	-	74	1	32.37	Peak
1407	V	45.04	-	-7.02	38.02	1	74	1	35.98	Peak
N/A										



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IEEE 802.11a with 5.8G Middle

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL		ual Fs	Pea k	AV Limit	Margin (dB	Remar
	H/V	Readin g	g (dBuV	CF (dB	Pea k (dBuV/	AV (dBuV/ m)	Limit (dBuV/	(dBuV/ m))	k
		(dBuV/ m)	/m))	m)		m)			
11570	V	50.1		2.36	52.46		74	1	21.54	Peak
17355	V	36.97		4.52	41.49		74	1	32.51	Peak
1407	V	45.67		-7.02	38.65		74	1	35.35	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin	AV Readin g	Ant. / CL CF (dB	Act	ual Fs AV	Pea k Limit	AV Limit (dBuV/	Margin (dB)	Remar
		g (dBuV/ m)	(dBuV)	k (dBuV/ m)	(dBuV/ m)	(dBuV/ m)	m)		k
11570	Н	48.88		2.36	51.24		74	1	22.76	Peak
17355	Ι	36.94	-	4.52	41.46		74	1	32.54	Peak
1407	V	45.36		-7.02	38.34		74	1	35.66	Peak
N/A										



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IEEE 802.11a with 5.8G High

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL	Act	ual Fs	Pea k	AV Limit	Margin (dB)	Remar
	H/V	Readin g (dBuV/ m)	g (dBuV /m)	CF (dB)	Pea k (dBuV/ m)	AV (dBuV/ m)	Limit (dBuV/ m)	(dBuV/ m)		k
11650	٧	50.13		2.36	52.49		74	1	21.51	Peak
17475	>	37.25		4.52	41.77		74	1	32.23	Peak
1407	V	45.17		-7.02	38.152		74	1	35.84	Peak
N/A										

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL	Act	ual Fs	Pea k	AV Limit	Margin (dB)	Remar
	H/V	Readin g (dBuV/	g (dBuV /m)	CF (dB)	Pea k (dBuV/ m)	AV (dBuV/ m)	Limit (dBuV/ m)	(dBuV/ m)		k
		m)								
11650	Η	49.27		2.36	51.63	-	74	/	22.37	Peak
17475	Н	37.32		4.52	41.84		74	1	32.16	Peak
1407	>	45.54		-7.02	38.52	-	74	/	35.48	Peak
N/A										



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IEEE 802.11n/HT20 with 5.8G Low

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11490	V	49.66		2.36	52.02		74	1	21.98	Peak
17235	V	36.94	1	4.52	41.46		74	1	32.54	Peak
1407	V	45.39		-7.02	38.37		74	1	35.63	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11490	Ι	49.49		2.36	51.85	-	74	1	22.15	Peak
17235	Н	36.72		4.52	41.2362		74	1	32.76	Peak
1407	V	45.53		-7.02	38.51		74	1	35.49	Peak
N/A										



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IEEE 802.11n/HT20 with 5.8G Middle

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11570	V	48.97		2.36	51.33		74	1	22.67	Peak
17355	V	38.21		4.52	42.73		74	1	31.27	Peak
1407	V	45.61		-7.02	38.59		74	/	35.41	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11570	Н	48.29		2.36	50.65		74	1	23.35	Peak
17355	Н	37.06		4.52	41.58		74	1	32.42	Peak
1407	V	45.34		-7.02	38.32		74	1	35.68	Peak
N/A					·					



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IEEE 802.11n/HT20 with 5.8G High

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL	Act	ual Fs	Pea k	AV Limit	Margin (dB	Remar
	H/V	Readin g (dBuV/	g (dBuV /m)	CF (dB	Pea k (dBuV/ m)	AV (dBuV/ m)	Limit (dBuV/ m)	(dBuV/ m))	k
		m)	,,	,	,					
11650	V	50.37		2.36	52.73		74	1	21.27	Peak
17475	V	36.94		4.52	41.46		74	1	32.54	Peak
1407	٧	45.63		-7.02	38.61		74	1	35.39	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11650	Н	50.41		2.36	52.77		74	/	21.23	Peak
17475	Н	37.29		4.52	41.81		74	/	32.19	Peak
1407	V	45.33		-7.02	38.31		74	/	35.69	Peak
N/A										



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IEEE 802.11n/HT40 with 5.8G Low

Freq. (MHz)	Ant. Pol	Pea k	AV Readin	Ant. / CL CF	Act	ual Fs	Pea k	AV Limit	Margin (dB)	Remark
	H/V	Readin g (dBuV/ m)	g (dBuV /m)	(dB)	Pea k (dBuV/m)	AV (dBuV/m)	Limit (dBuV/ m)	(dBuV/ m)		Kemark
11510	V	50.40		2.36	52.76		74	1	21.24	Peak
17265	V	36.92		4.52	41.44		74	1	32.56	Peak
1407	V	45.29		-7.02	38.27		74	1	35.73	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11510	Н	48.96		2.36	51.32		74	1	22.68	Peak
17265	Н	37.06		4.52	41.58		74	1	32.42	Peak
1407	V	45.34		-7.02	38.32		74	1	35.68	Peak
N/A										



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IEEE 802.11n/HT40 with 5.8G High

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	Readin g (dBuV	Ant. / CL CF (dB)	Pea k (dBuV/ m)	AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11590	V	50.18		2.36	52.54		74	1	21.46	Peak
17385	V	36.81		4.52	41.33		74	1	32.67	Peak
1407	V	45.78		-7.02	38.76		74	1	35.24	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11590	Н	49.2		2.36	51.56		74	/	22.44	Peak
17385	Ι	37.13		4.52	41.649		74	1	32.35	Peak
1407	٧	45.49		-7.02	38.47	-	74	/	35.53	Peak
N/A	·									



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IEEE 802.11ac with 5.8G

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB)	Act Pea	ual Fs AV (dBuV/m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remark
11550	V	50.19		2.38	52.57		74	/	21.43	Peak
17265	V	35.81		4.52	40.33		74	1	33.67	Peak
1407	V	45.58		-7.02	38.56		74	1	35.44	Peak
N/A										

Freq. (MHz)	Ant. Pol H/V	Pea k Readin g (dBuV/ m)	AV Readin g (dBuV /m)	Ant. / CL CF (dB	Pea k (dBuV/ m)	ual Fs AV (dBuV/ m)	Pea k Limit (dBuV/ m)	AV Limit (dBuV/ m)	Margin (dB)	Remar k
11550	Н	48.27		2.38	50.65		74	1	23.35	Peak
17265	Н	35.83		4.52	40.35		74	1	33.65	Peak
1407	٧	45.73		-7.02	38.71		74	1	35.29	Peak
N/A										



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10. Test Frequency stability

10. 1Test Standard and Limit

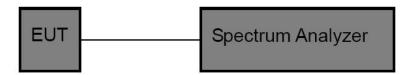
10.1.1 Test Standard

FCC Part15 C Section 15.407

10.1.2 Test Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

10.2 Test Setup





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10.3 Test Data

Frequency VS Voltage

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
	132 V	5179.974	26	5239.973	27
5.2G Band	120 V	5179.974	26	5239.973	27
	108 V	5179.974	26	5239.973	27
	Voltage	FHL	Deviation	FHH	Deviation
	(V)	(5745MHz)	(KHz)	(5825MHz)	(KHz)
5.8G Band	132 V	5744.933	27	5824.975	25
	120 V	5744.933	27	5824.975	25
	108 V	5744.933	27	5824.975	25

Frequency VS Temperature

Mode	Temperature	FHL	Deviation	FHH	Deviation
	(℃)	(5180MHz)	(KHz)	(5240MHz)	(KHz)
	-30	5179.931	69	5239.944	56
	-20	5179.954	46	5239.955	45
	-10	5179.966	34	5239.956	44
	0	5179.957	43	5239.961	39
5.2G Band	10	5179.975	25	5239.967	33
	20	5179.975	25	5239.958	42
	30	5179.965	35	5239.977	23
	40	5179.973	27	5239.971	29
	50	5179.987	13	5239.977	23
	Temperature	FHL	Deviation	FHH	Deviation
	(℃)	(5745MHz)	(KHz)	(5825MHz)	(KHz)
	-30	5744.936	64	5824.932	78
	-20	5744.938	62	5824.936	74
5.0G D 1	-10	5744.941	59	5824.945	55
5.8G Band	0	5744.943	57	5824.953	47
	10	5744.954	41	5824.956	44
	20	5744.958	42	5824.971	29
	30	5744.956	44	5824.968	32
	40	5744.962	38	5824.954	46



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		50	5744.973	27	5824.969	31	