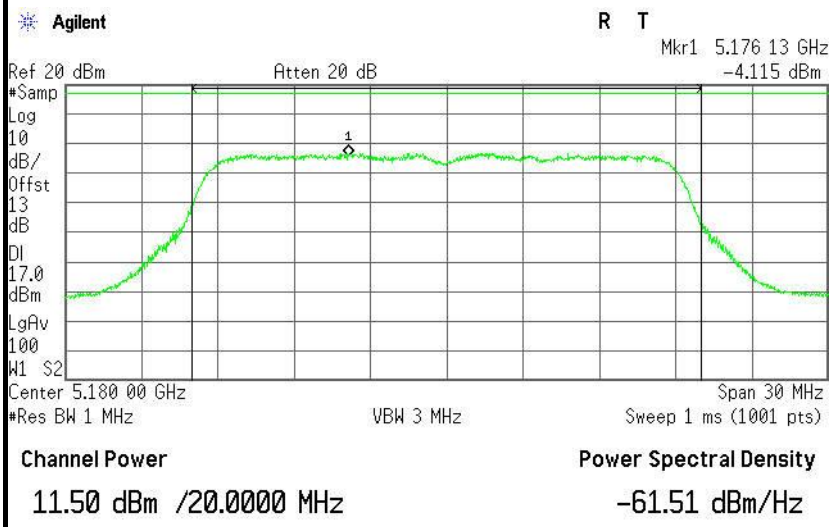
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

PPSD (CH Low)

Antenna 2



Channel Power

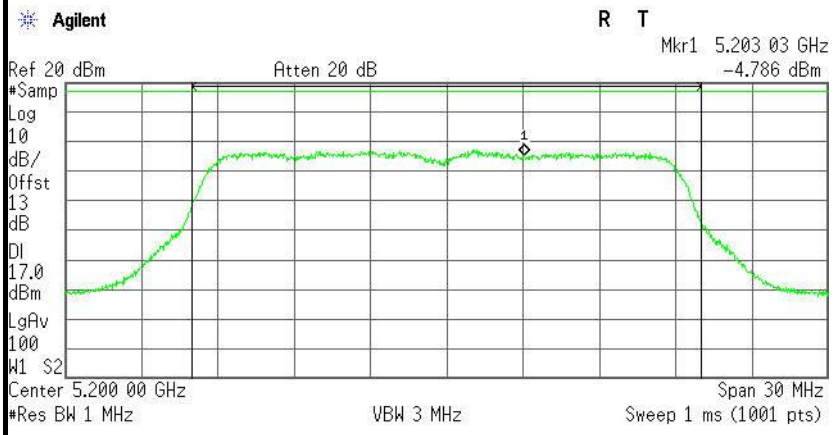
11.50 dBm /20.0000 MHz

Power Spectral Density

-61.51 dBm/Hz

PPSD (CH Mid)

Antenna 2



Channel Power

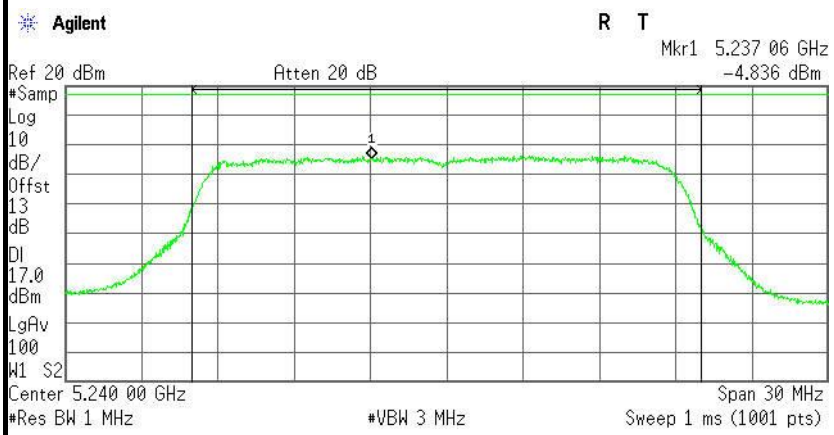
11.48 dBm /20.0000 MHz

Power Spectral Density

-61.53 dBm/Hz

PPSD (CH High)

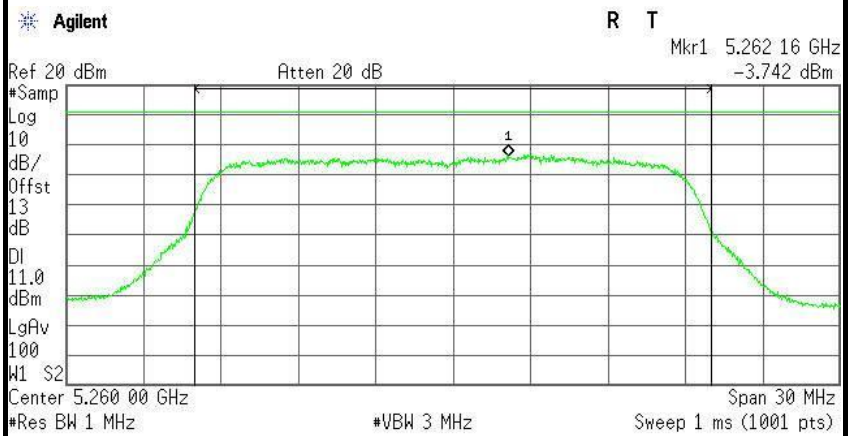
Antenna 2



IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

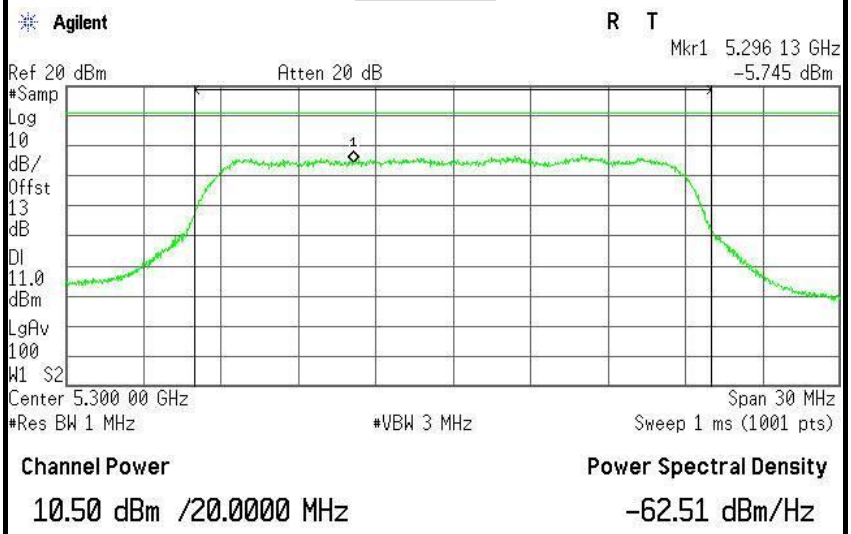
PPSD (CH Low)

Antenna 2



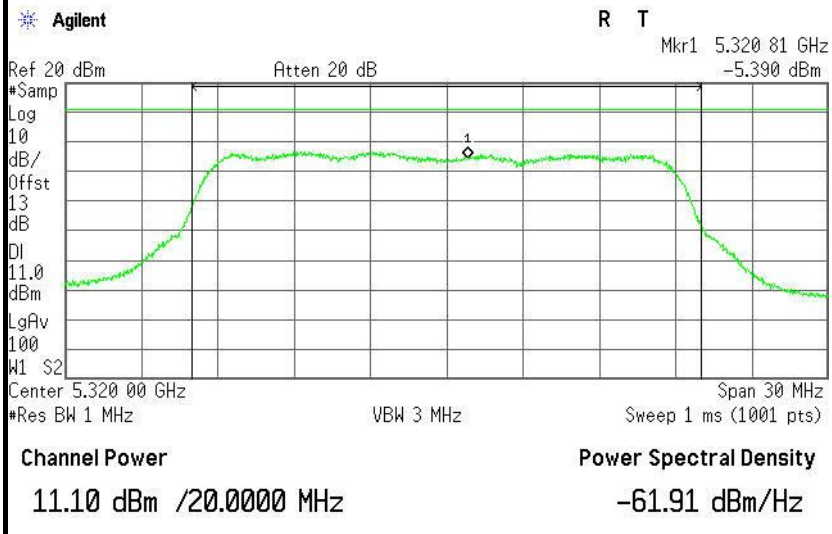
PPSD (CH Mid)

Antenna 2



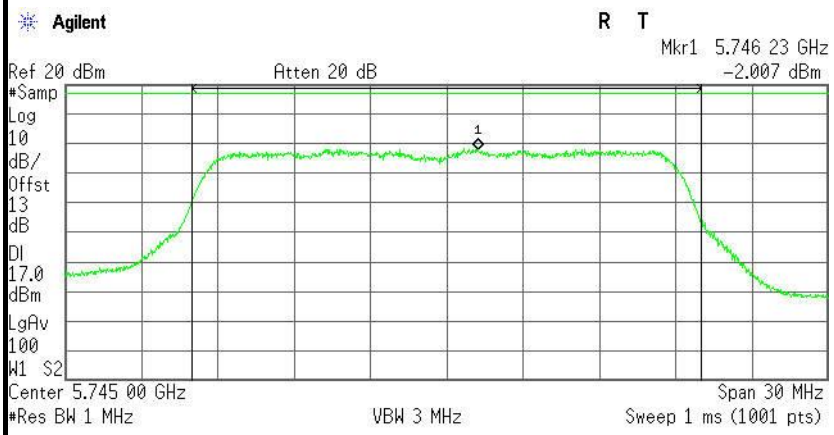
PPSD (CH High)

Antenna 2



IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz
PPSD (CH Low)

Antenna 2



Channel Power

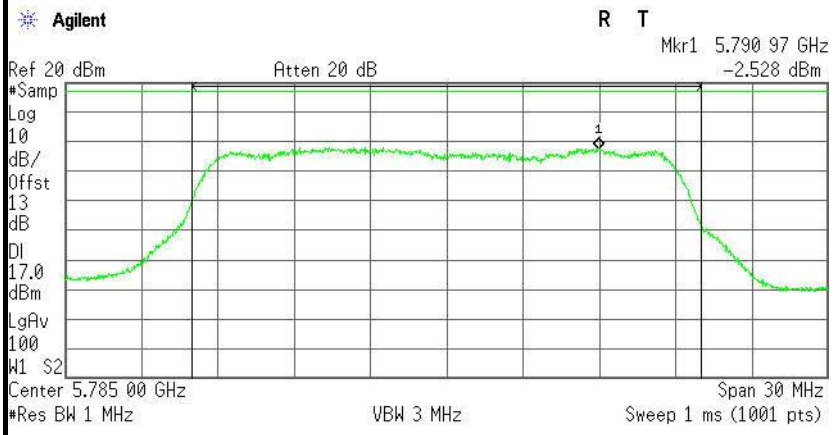
12.53 dBm /20.0000 MHz

Power Spectral Density

-60.48 dBm/Hz

PPSD (CH Mid)

Antenna 2



Channel Power

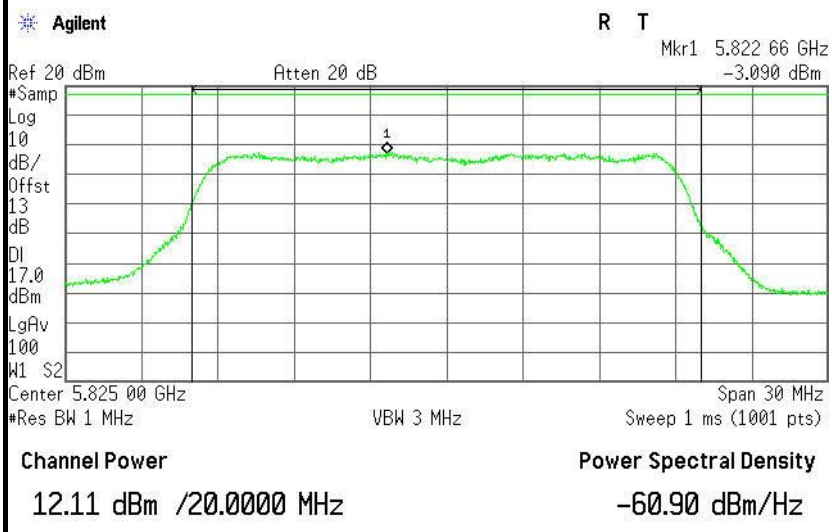
11.98 dBm /20.0000 MHz

Power Spectral Density

-61.03 dBm/Hz

PPSD (CH High)

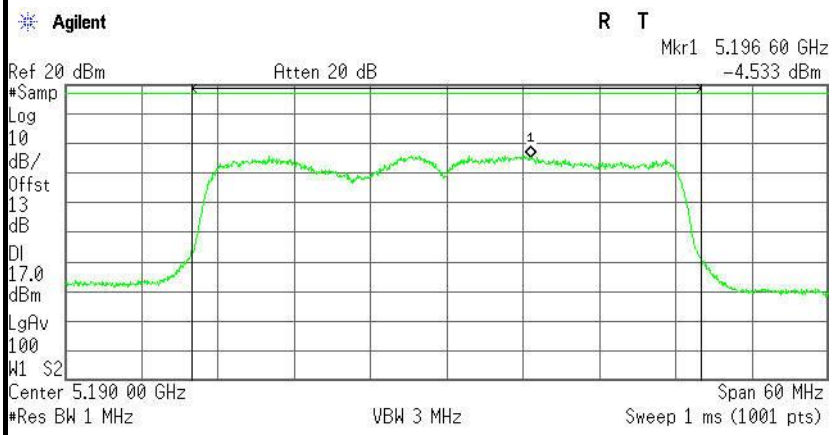
Antenna 2



IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

PPSD (CH Low)

Antenna 1



Channel Power

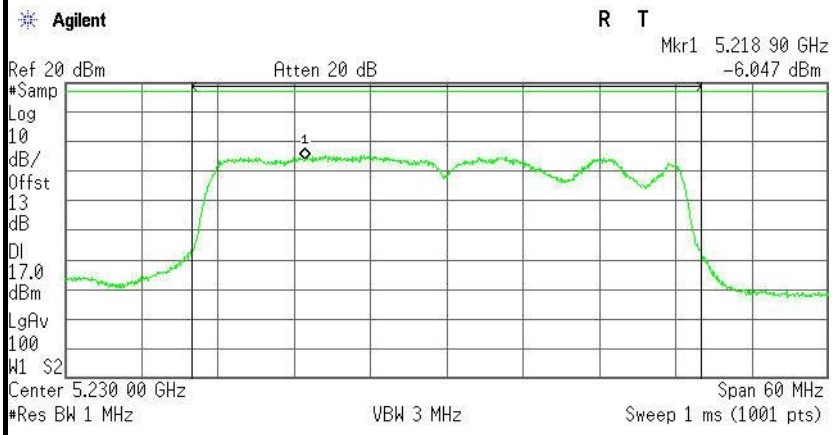
13.31 dBm /40.0000 MHz

Power Spectral Density

-62.71 dBm/Hz

PPSD (CH High)

Antenna 1



Channel Power

12.79 dBm /40.0000 MHz

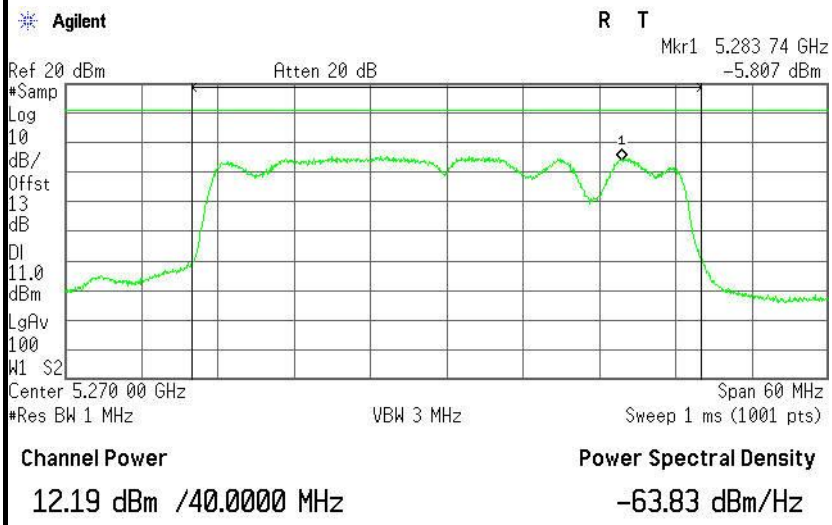
Power Spectral Density

-63.23 dBm/Hz

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

PPSD (CH Low)

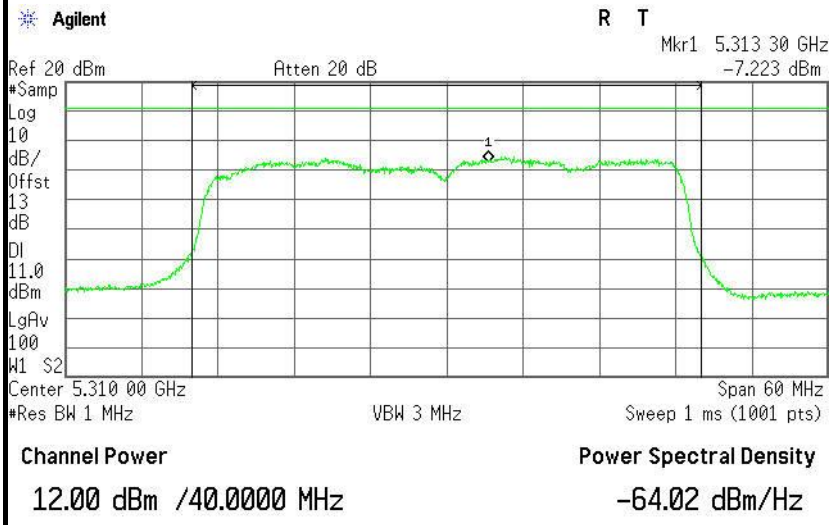
Antenna 1



Channel Power	Power Spectral Density
12.19 dBm /40.0000 MHz	-63.83 dBm/Hz

PPSD (CH High)

Antenna 1

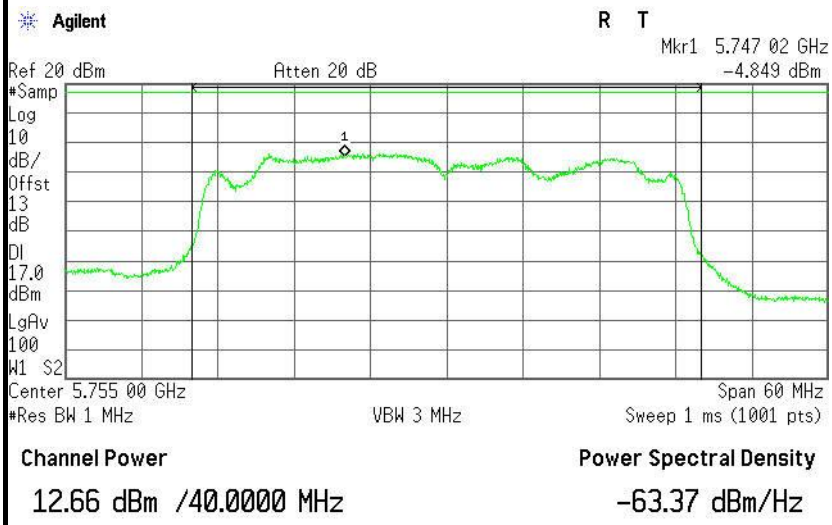


Channel Power	Power Spectral Density
12.00 dBm /40.0000 MHz	-64.02 dBm/Hz

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)

Antenna 1



Channel Power

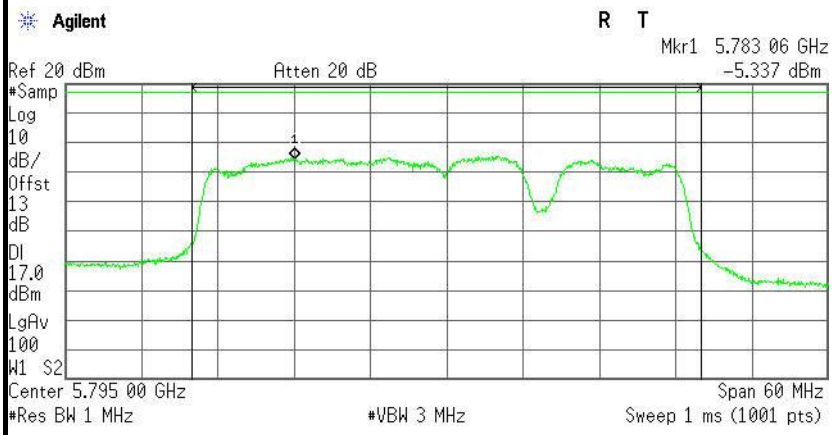
12.66 dBm /40.0000 MHz

Power Spectral Density

-63.37 dBm/Hz

PPSD (CH High)

Antenna 1



Channel Power

12.50 dBm /40.0000 MHz

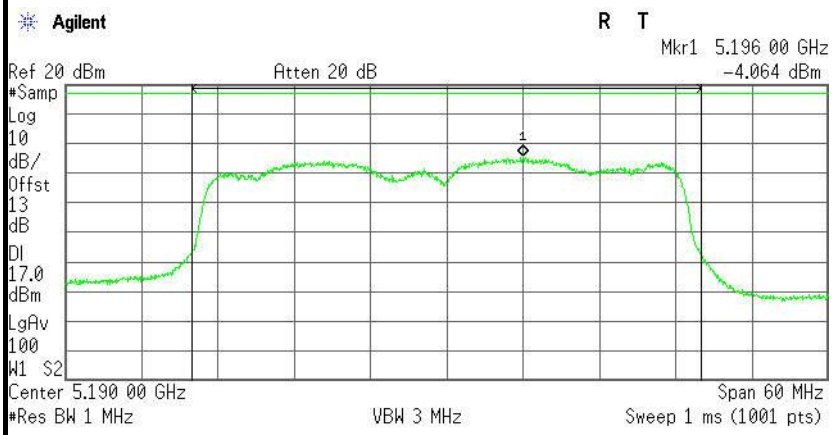
Power Spectral Density

-63.52 dBm/Hz

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

PPSD (CH Low)

Antenna 2



Channel Power

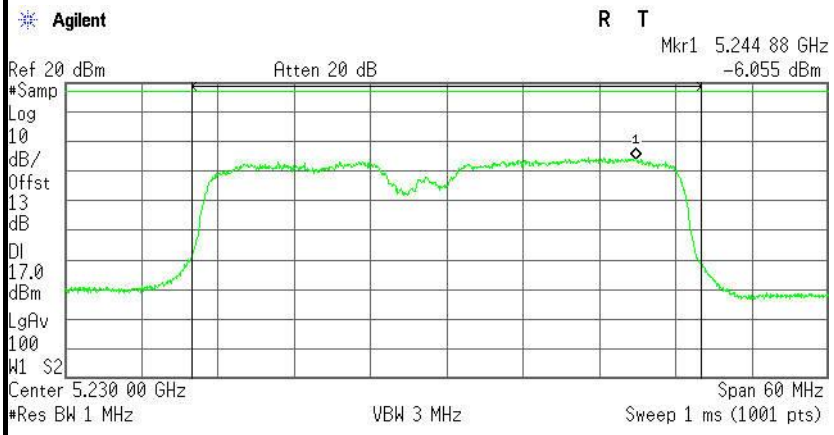
12.13 dBm /40.0000 MHz

Power Spectral Density

-63.89 dBm/Hz

PPSD (CH High)

Antenna 2



Channel Power

11.53 dBm /40.0000 MHz

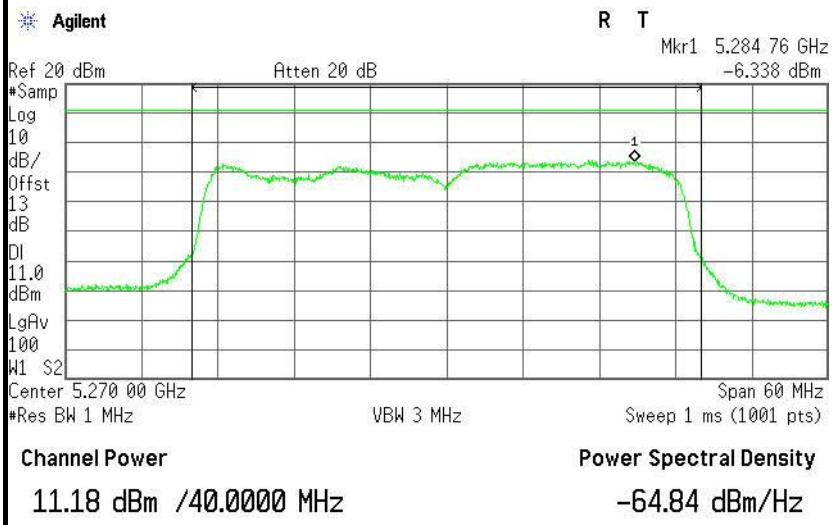
Power Spectral Density

-64.49 dBm/Hz

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

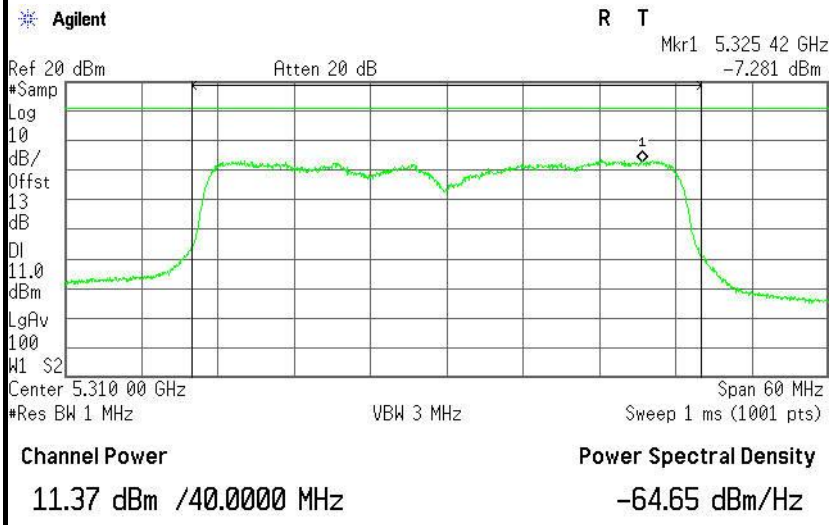
PPSD (CH Low)

Antenna 2



PPSD (CH High)

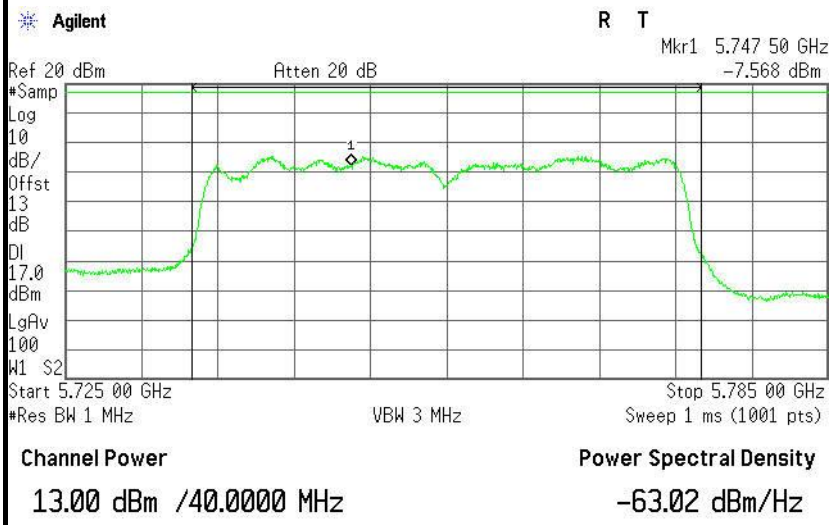
Antenna 2



IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

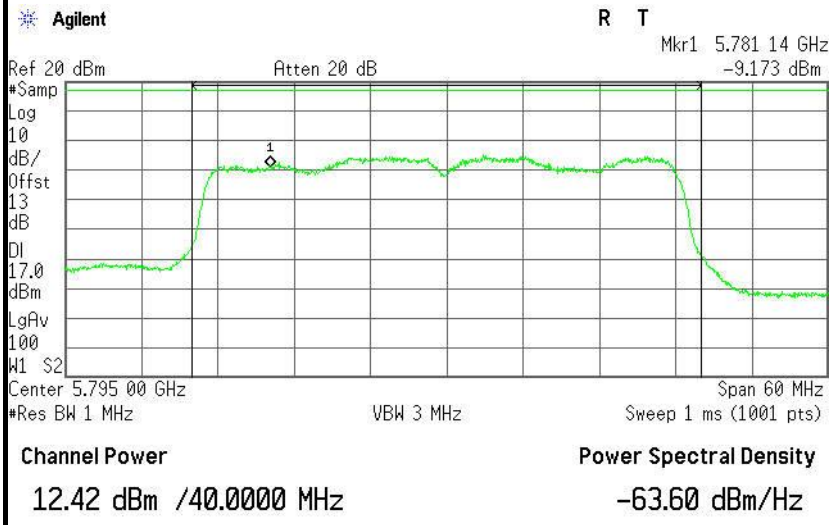
PPSD (CH Low)

Antenna 2



26dB Bandwidth (CH High)

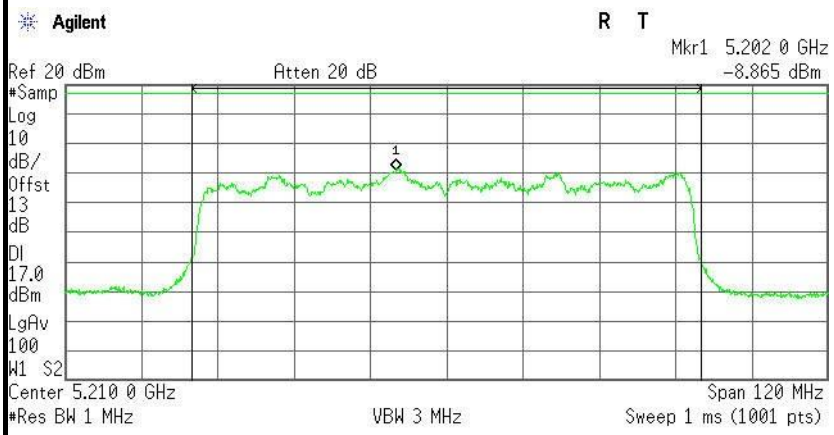
Antenna 2



IEEE 802.11ac 80 mode / 5210MHz

PPSD

Antenna 1



Channel Power

12.17 dBm /80.0000 MHz

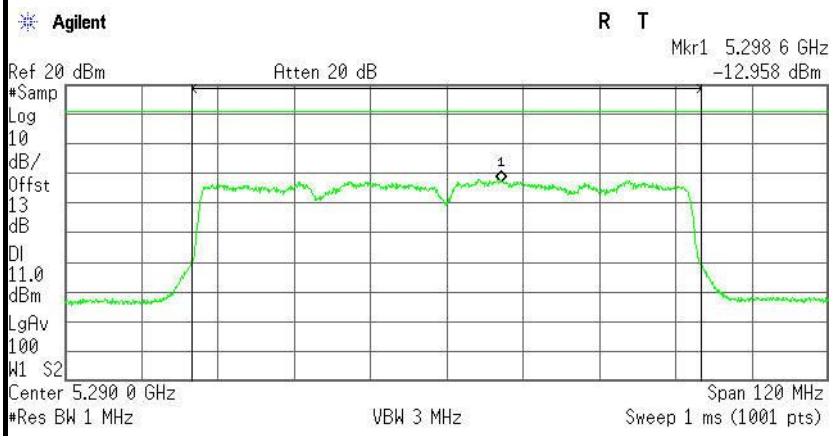
Power Spectral Density

-66.86 dBm/Hz

IEEE 802.11ac 80 mode / 5290MHz

PPSD

Antenna 1



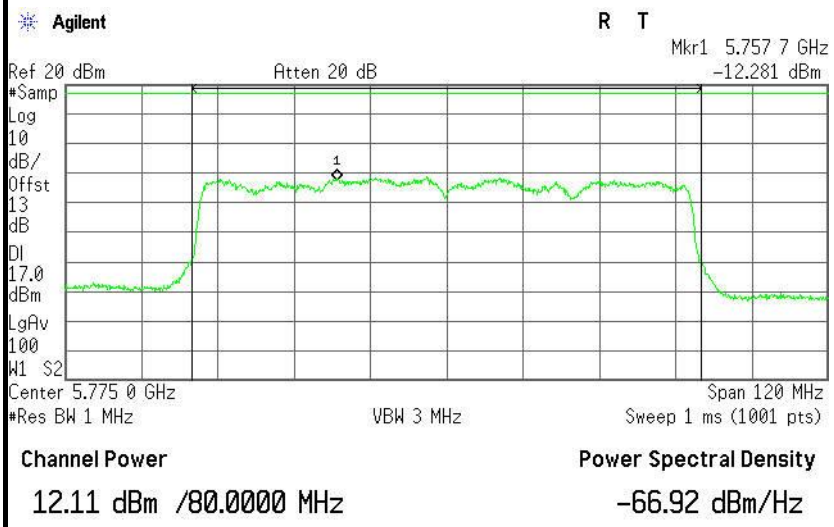
Channel Power

11.38 dBm /80.0000 MHz

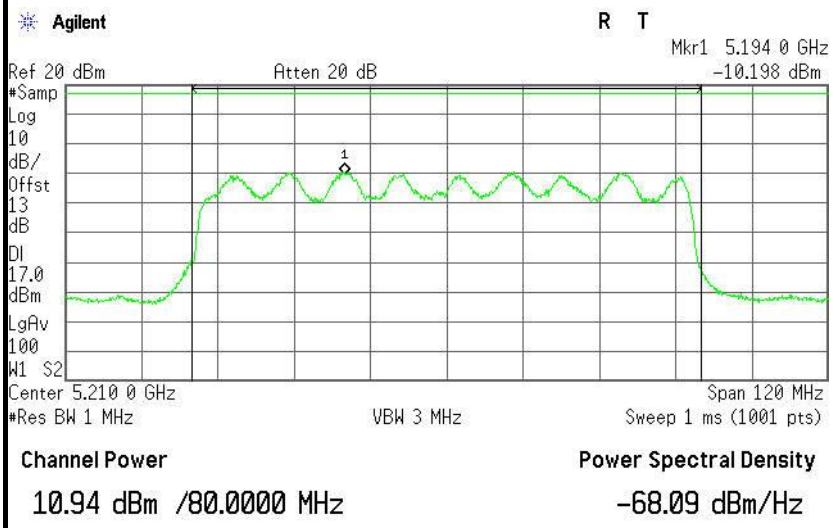
Power Spectral Density

-67.65 dBm/Hz

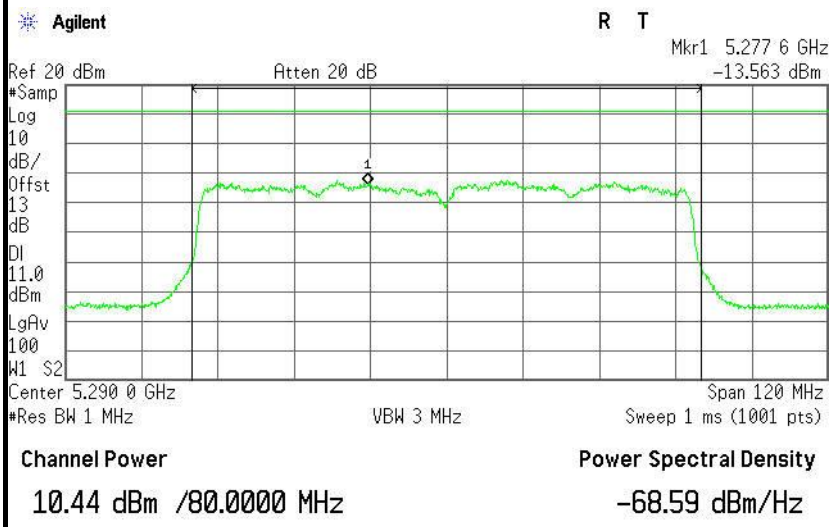
IEEE 802.11ac 80 mode / 5775MHz
PPSD
Antenna 1



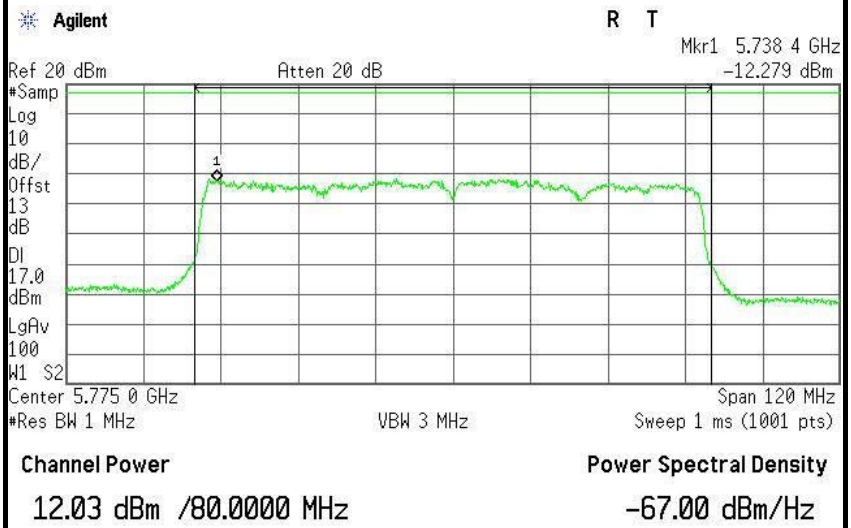
IEEE 802.11ac 80 mode / 5210MHz
PPSD
Antenna 2



IEEE 802.11ac 80 mode / 5290MHz
PPSD
Antenna 2



IEEE 802.11ac 80 mode / 5775MHz
PPSD
Antenna 2



6.6 RADIATED UNDESIABLE EMISSION

6.6.1 LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the emission table above, the tighter limit applies at the band edges.

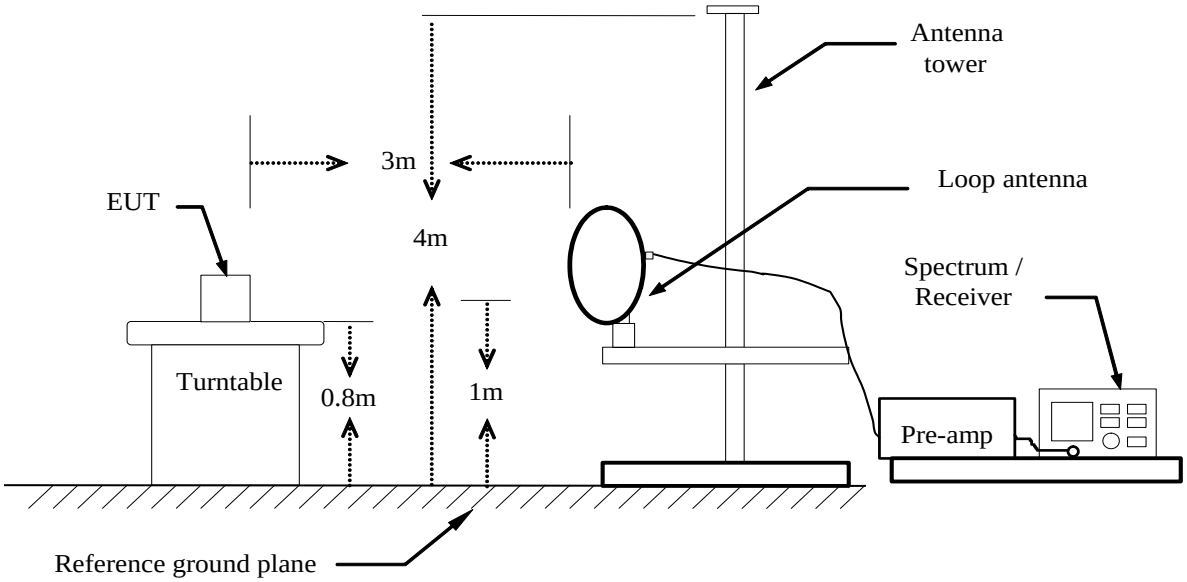
Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

6.6.2 TEST INSTRUMENTS

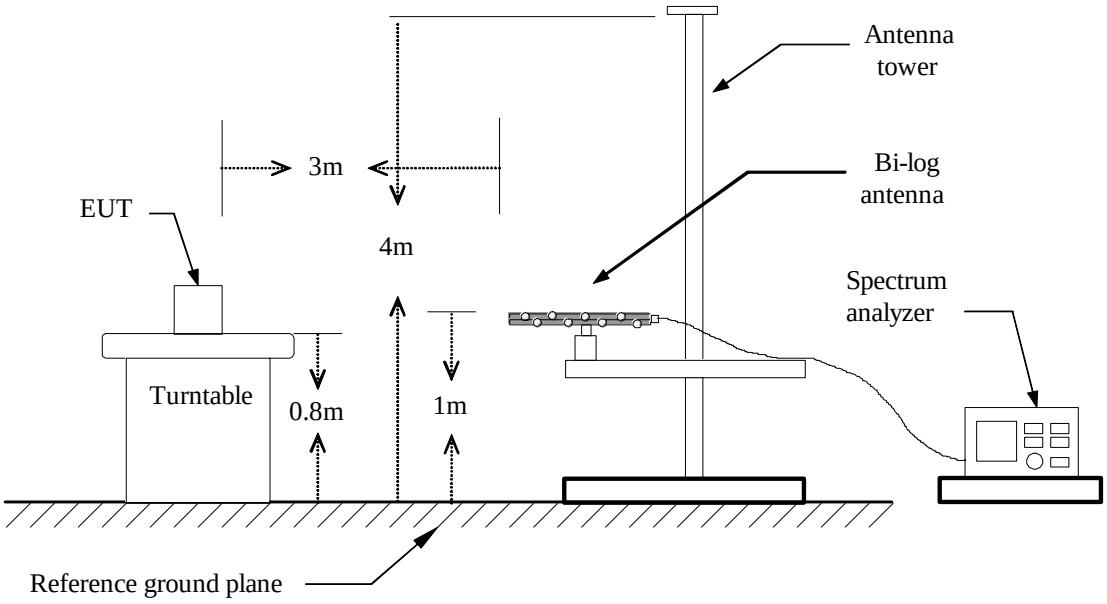
Radiated Emission Test Site 966(2)					
Name of Equipment	**Manufacturer**	**Model Number**	**Serial Number**	**Last Calibration**	**Due Calibration**
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/28/2015	02/27/2016
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2016
High Noise Amplifier	Agilent	8449B	3008A01838	02/28/2015	02/27/2016
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2015	02/27/2016
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/28/2015	02/27/2016
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2015	02/27/2016
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

6.6.3 TEST CONFIGURATION

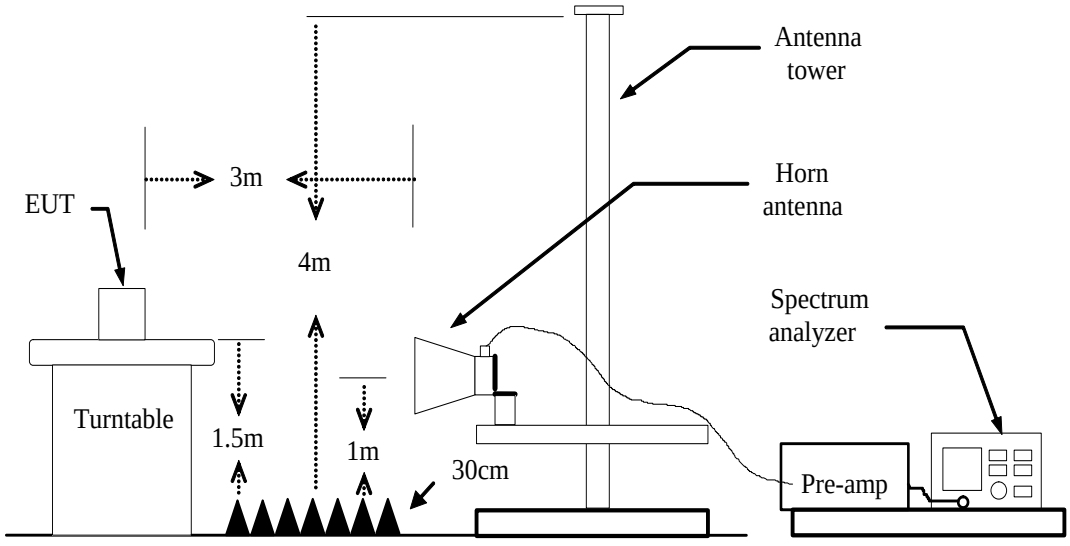
Below 30MHz



Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the TEST CONFIGURATION.

6.6.4 TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m or 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

   Below 1GHz:

   RBW=100kHz / VBW=300kHz / Sweep=AUTO

   Above 1GHz:

   (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

   (b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO / Detector=RMS
7. Repeat above procedures until the measurements for all frequencies are complete.

6.6.5 DATA SAPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Peak = Peak Reading
AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m)
Result (dBuV/m) = Reading (dBuV) + Correction Factor

6.6.6 TEST RESULTS

Below 1 GHz

Test Mode: TX **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
75.5900	64.07	-26.25	37.82	40.00	-2.18	V	QP
566.4100	55.66	-13.11	42.55	46.00	-3.45	V	QP
708.0300	53.49	-11.91	41.58	46.00	-4.42	V	QP
742.9500	54.46	-11.30	43.16	46.00	-2.84	V	QP
849.6500	49.52	-10.69	38.83	46.00	-7.17	V	QP
991.2700	52.02	-9.29	42.73	54.00	-11.27	V	QP
106.6300	63.62	-22.45	41.17	43.50	-2.33	H	QP
360.7700	47.15	-17.40	29.75	46.00	-16.25	H	QP
454.8600	50.64	-15.32	35.32	46.00	-10.68	H	QP
566.4100	56.86	-13.11	43.75	46.00	-2.25	H	QP
742.9500	55.58	-11.30	44.28	46.00	-1.72	H	QP
885.5400	51.94	-9.93	42.01	46.00	-3.99	H	QP

Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

Above 1 GHz

Antenna 1

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10080.000	31.15	12.23	43.38	74.00	-30.62	V	peak
10960.000	30.22	14.96	45.18	74.00	-28.82	V	peak
12720.000	29.13	17.02	46.15	74.00	-27.85	V	peak
14260.000	28.91	20.73	49.64	74.00	-24.36	V	peak
14980.000	29.51	21.15	50.66	74.00	-23.34	V	peak
17020.000	28.01	23.39	51.40	74.00	-22.60	V	peak
10760.000	30.08	14.34	44.42	74.00	-29.58	H	Peak
11840.000	30.67	14.71	45.38	74.00	-28.62	H	Peak
12860.000	29.71	17.49	47.20	74.00	-26.80	H	Peak
13580.000	28.23	19.48	47.71	74.00	-26.29	H	peak
14300.000	28.78	20.75	49.53	74.00	-24.47	H	peak
15020.000	29.58	21.07	50.65	74.00	-23.35	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5200MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.93	9.46	41.39	74.00	-32.61	V	peak
10020.000	30.68	12.04	42.72	74.00	-31.28	V	peak
11020.000	30.30	15.07	45.37	74.00	-28.63	V	peak
12860.000	29.14	17.49	46.63	74.00	-27.37	V	peak
13940.000	27.65	20.42	48.07	74.00	-25.93	V	peak
14980.000	29.41	21.15	50.56	74.00	-23.44	V	peak
8500.000	31.29	9.38	40.67	74.00	-33.33	H	Peak
9280.000	30.88	9.91	40.79	74.00	-33.21	H	Peak
10300.000	30.43	12.91	43.34	74.00	-30.66	H	Peak
11680.000	29.73	14.78	44.51	74.00	-29.49	H	peak
12980.000	29.36	17.88	47.24	74.00	-26.76	H	peak
14540.000	28.79	20.89	49.68	74.00	-24.32	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5240MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.68	9.46	41.14	74.00	-32.86	V	peak
10620.000	29.80	13.90	43.70	74.00	-30.30	V	peak
12240.000	29.72	15.43	45.15	74.00	-28.85	V	peak
14080.000	28.14	20.63	48.77	74.00	-25.23	V	peak
14980.000	29.36	21.15	50.51	74.00	-23.49	V	peak
15140.000	29.61	20.52	50.13	74.00	-23.87	V	peak
7720.000	31.76	9.10	40.86	74.00	-33.14	H	Peak
9380.000	31.01	10.19	41.20	74.00	-32.80	H	Peak
12440.000	30.03	16.10	46.13	74.00	-27.87	H	Peak
13940.000	28.39	20.42	48.81	74.00	-25.19	H	peak
14800.000	28.95	21.04	49.99	74.00	-24.01	H	peak
15460.000	29.77	19.07	48.84	74.00	-25.16	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5260MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.71	9.46	41.17	74.00	-32.83	V	peak
8480.000	31.70	9.39	41.09	74.00	-32.91	V	peak
10820.000	29.66	14.52	44.18	74.00	-29.82	V	peak
12440.000	29.65	16.10	45.75	74.00	-28.25	V	peak
14240.000	28.89	20.72	49.61	74.00	-24.39	V	peak
14920.000	29.49	21.11	50.60	74.00	-23.40	V	peak
7780.000	31.44	9.22	40.66	74.00	-33.34	H	Peak
8480.000	31.72	9.39	41.11	74.00	-32.89	H	Peak
10980.000	30.13	15.02	45.15	74.00	-28.85	H	Peak
12420.000	29.59	16.03	45.62	74.00	-28.38	H	peak
14100.000	28.38	20.64	49.02	74.00	-24.98	H	peak
14900.000	29.09	21.10	50.19	74.00	-23.81	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5300MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
11020.000	29.76	15.07	44.83	74.00	-29.17	V	peak
12840.000	29.22	17.42	46.64	74.00	-27.36	V	peak
14260.000	28.68	20.73	49.41	74.00	-24.59	V	peak
14900.000	29.10	21.10	50.20	74.00	-23.80	V	peak
16540.000	28.94	20.27	49.21	74.00	-24.79	V	peak
17160.000	28.02	23.36	51.38	74.00	-22.62	V	peak
9620.000	30.64	10.89	41.53	74.00	-32.47	H	Peak
11000.000	29.82	15.08	44.90	74.00	-29.10	H	Peak
12820.000	29.62	17.35	46.97	74.00	-27.03	H	Peak
14960.000	29.55	21.14	50.69	74.00	-23.31	H	peak
17040.000	28.61	23.38	51.99	74.00	-22.01	H	peak
17160.000	27.96	23.36	51.32	74.00	-22.68	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5320MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.70	9.46	41.16	74.00	-32.84	V	peak
10300.000	30.73	12.91	43.64	74.00	-30.36	V	peak
10980.000	30.28	15.02	45.30	74.00	-28.70	V	peak
12460.000	29.69	16.16	45.85	74.00	-28.15	V	peak
13000.000	29.10	17.95	47.05	74.00	-26.95	V	peak
15020.000	29.35	21.07	50.42	74.00	-23.58	V	peak
8360.000	31.93	9.45	41.38	74.00	-32.62	H	Peak
9960.000	30.65	11.86	42.51	74.00	-31.49	H	Peak
11100.000	30.12	15.04	45.16	74.00	-28.84	H	Peak
12440.000	30.09	16.10	46.19	74.00	-27.81	H	peak
14700.000	28.89	20.99	49.88	74.00	-24.12	H	peak
15160.000	29.62	20.43	50.05	74.00	-23.95	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5745MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8360.000	31.81	9.45	41.26	74.00	-32.74	V	peak
10320.000	30.69	12.97	43.66	74.00	-30.34	V	peak
11820.000	30.54	14.72	45.26	74.00	-28.74	V	peak
14280.000	29.19	20.74	49.93	74.00	-24.07	V	peak
15100.000	29.67	20.70	50.37	74.00	-23.63	V	peak
17300.000	28.14	23.33	51.47	74.00	-22.53	V	peak
10800.000	29.78	14.46	44.24	74.00	-29.76	H	Peak
10920.000	30.19	14.83	45.02	74.00	-28.98	H	Peak
13540.000	27.88	19.37	47.25	74.00	-26.75	H	Peak
14120.000	28.21	20.65	48.86	74.00	-25.14	H	peak
14960.000	29.17	21.14	50.31	74.00	-23.69	H	peak
16880.000	27.82	22.58	50.40	74.00	-23.60	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5785MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10080.000	31.28	12.23	43.51	74.00	-30.49	V	peak
11220.000	30.03	14.98	45.01	74.00	-28.99	V	peak
12960.000	29.56	17.82	47.38	74.00	-26.62	V	peak
14520.000	28.66	20.88	49.54	74.00	-24.46	V	peak
15000.000	29.12	21.16	50.28	74.00	-23.72	V	peak
17160.000	27.96	23.36	51.32	74.00	-22.68	V	peak
9380.000	31.23	10.19	41.42	74.00	-32.58	H	Peak
12480.000	30.01	16.23	46.24	74.00	-27.76	H	Peak
13540.000	28.31	19.37	47.68	74.00	-26.32	H	Peak
14140.000	28.40	20.66	49.06	74.00	-24.94	H	peak
14960.000	29.23	21.14	50.37	74.00	-23.63	H	peak
17020.000	27.98	23.39	51.37	74.00	-22.63	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5825MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10080.000	30.89	12.23	43.12	74.00	-30.88	V	peak
11800.000	30.41	14.73	45.14	74.00	-28.86	V	peak
12960.000	29.30	17.82	47.12	74.00	-26.88	V	peak
14020.000	28.12	20.59	48.71	74.00	-25.29	V	peak
15020.000	29.39	21.07	50.46	74.00	-23.54	V	peak
17020.000	28.03	23.39	51.42	74.00	-22.58	V	peak
10620.000	29.59	13.90	43.49	74.00	-30.51	H	Peak
11760.000	30.05	14.75	44.80	74.00	-29.20	H	Peak
12960.000	29.26	17.82	47.08	74.00	-26.92	H	Peak
14120.000	28.15	20.65	48.80	74.00	-25.20	H	peak
15100.000	29.65	20.70	50.35	74.00	-23.65	H	peak
16940.000	28.03	22.98	51.01	74.00	-22.99	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Antenna 2

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	32.31	9.46	41.77	74.00	-32.23	V	peak
10900.000	30.25	14.77	45.02	74.00	-28.98	V	peak
11860.000	31.56	14.70	46.26	74.00	-27.74	V	peak
12940.000	30.10	17.75	47.85	74.00	-26.15	V	peak
13480.000	29.05	19.21	48.26	74.00	-25.74	V	peak
14980.000	30.01	21.15	51.16	74.00	-22.84	V	peak
7760.000	32.41	9.18	41.59	74.00	-32.41	H	Peak
10100.000	31.21	12.29	43.50	74.00	-30.50	H	Peak
12960.000	30.66	17.82	48.48	74.00	-25.52	H	Peak
14080.000	28.44	20.63	49.07	74.00	-24.93	H	peak
14580.000	29.19	20.92	50.11	74.00	-23.89	H	peak
17020.000	27.71	23.39	51.10	74.00	-22.90	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5200MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	32.93	9.46	42.39	74.00	-31.61	V	peak
10080.000	31.89	12.23	44.12	74.00	-29.88	V	peak
11020.000	29.30	15.07	44.37	74.00	-29.63	V	peak
12960.000	28.57	17.82	46.39	74.00	-27.61	V	peak
14260.000	27.04	20.73	47.77	74.00	-26.23	V	peak
14980.000	28.41	21.15	49.56	74.00	-24.44	V	peak
6740.000	31.91	7.28	39.19	74.00	-34.81	H	Peak
7720.000	31.18	9.10	40.28	74.00	-33.72	H	Peak
8440.000	31.68	9.41	41.09	74.00	-32.91	H	Peak
10280.000	28.86	12.85	41.71	74.00	-32.29	H	peak
10800.000	27.68	14.46	42.14	74.00	-31.86	H	peak
13480.000	27.53	19.21	46.74	74.00	-27.26	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5240MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7760.000	33.05	9.18	42.23	74.00	-31.77	V	peak
10960.000	28.62	14.96	43.58	74.00	-30.42	V	peak
12440.000	28.28	16.10	44.38	74.00	-29.62	V	peak
14320.000	28.38	20.77	49.15	74.00	-24.85	V	peak
14980.000	27.86	21.15	49.01	74.00	-24.99	V	peak
17020.000	26.09	23.39	49.48	74.00	-24.52	V	peak
6980.000	32.49	7.67	40.16	74.00	-33.84	H	Peak
8380.000	33.39	9.44	42.83	74.00	-31.17	H	Peak
10040.000	31.01	12.10	43.11	74.00	-30.89	H	Peak
10880.000	29.43	14.71	44.14	74.00	-29.86	H	peak
12960.000	27.85	17.82	45.67	74.00	-28.33	H	peak
15020.000	27.27	21.07	48.34	74.00	-25.66	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5260MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8360.000	32.34	9.45	41.79	74.00	-32.21	V	peak
10880.000	30.06	14.71	44.77	74.00	-29.23	V	peak
12960.000	28.85	17.82	46.67	74.00	-27.33	V	peak
13560.000	28.09	19.42	47.51	74.00	-26.49	V	peak
14060.000	28.03	20.61	48.64	74.00	-25.36	V	peak
14920.000	28.49	21.11	49.60	74.00	-24.40	V	peak
7780.000	32.44	9.22	41.66	74.00	-32.34	H	Peak
9900.000	31.42	11.69	43.11	74.00	-30.89	H	Peak
10020.000	32.31	12.04	44.35	74.00	-29.65	H	Peak
11700.000	30.97	14.77	45.74	74.00	-28.26	H	peak
14060.000	27.26	20.61	47.87	74.00	-26.13	H	peak
14560.000	27.47	20.90	48.37	74.00	-25.63	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5300MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7620.000	31.32	8.91	40.23	74.00	-33.77	V	peak
8340.000	31.90	9.46	41.36	74.00	-32.64	V	peak
11800.000	30.65	14.73	45.38	74.00	-28.62	V	peak
12960.000	28.80	17.82	46.62	74.00	-27.38	V	peak
14820.000	28.56	21.06	49.62	74.00	-24.38	V	peak
16540.000	28.44	20.27	48.71	74.00	-25.29	V	peak
7720.000	32.77	9.10	41.87	74.00	-32.13	H	Peak
9960.000	32.08	11.86	43.94	74.00	-30.06	H	Peak
10880.000	30.05	14.71	44.76	74.00	-29.24	H	Peak
12280.000	28.74	15.57	44.31	74.00	-29.69	H	peak
13520.000	26.99	19.32	46.31	74.00	-27.69	H	peak
14320.000	26.74	20.77	47.51	74.00	-26.49	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5320MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	32.70	9.46	42.16	74.00	-31.84	V	peak
9640.000	31.69	10.94	42.63	74.00	-31.37	V	peak
10980.000	30.78	15.02	45.80	74.00	-28.20	V	peak
12780.000	29.46	17.22	46.68	74.00	-27.32	V	peak
13560.000	29.14	19.42	48.56	74.00	-25.44	V	peak
15020.000	29.35	21.07	50.42	74.00	-23.58	V	peak
8480.000	34.24	9.39	43.63	74.00	-30.37	H	Peak
10080.000	32.84	12.23	45.07	74.00	-28.93	H	Peak
11100.000	31.12	15.04	46.16	74.00	-27.84	H	Peak
12960.000	29.03	17.82	46.85	74.00	-27.15	H	peak
14340.000	27.83	20.78	48.61	74.00	-25.39	H	peak
14940.000	28.67	21.13	49.80	74.00	-24.20	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5745MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7680.000	32.90	9.03	41.93	74.00	-32.07	V	peak
8480.000	33.51	9.39	42.90	74.00	-31.10	V	peak
10100.000	31.93	12.29	44.22	74.00	-29.78	V	peak
11820.000	31.04	14.72	45.76	74.00	-28.24	V	peak
12440.000	30.34	16.10	46.44	74.00	-27.56	V	peak
13580.000	28.13	19.48	47.61	74.00	-26.39	V	peak
6960.000	33.16	7.64	40.80	74.00	-33.20	H	Peak
10700.000	29.18	14.15	43.33	74.00	-30.67	H	Peak
12980.000	29.26	17.88	47.14	74.00	-26.86	H	Peak
13560.000	27.87	19.42	47.29	74.00	-26.71	H	peak
14300.000	27.82	20.75	48.57	74.00	-25.43	H	peak
15120.000	28.74	20.61	49.35	74.00	-24.65	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5785MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7700.000	33.34	9.07	42.41	74.00	-31.59	V	peak
10880.000	30.14	14.71	44.85	74.00	-29.15	V	peak
13120.000	28.53	18.27	46.80	74.00	-27.20	V	peak
14940.000	27.95	21.13	49.08	74.00	-24.92	V	peak
16500.000	28.81	20.00	48.81	74.00	-25.19	V	peak
17160.000	26.46	23.36	49.82	74.00	-24.18	V	peak
8200.000	32.80	9.54	42.34	74.00	-31.66	H	Peak
9840.000	32.27	11.52	43.79	74.00	-30.21	H	Peak
12980.000	29.39	17.88	47.27	74.00	-26.73	H	Peak
14960.000	28.73	21.14	49.87	74.00	-24.13	H	peak
15280.000	29.81	19.89	49.70	74.00	-24.30	H	peak
17280.000	26.55	23.34	49.89	74.00	-24.11	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5825MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7580.000	32.90	8.83	41.73	74.00	-32.27	V	peak
10020.000	31.56	12.04	43.60	74.00	-30.40	V	peak
11120.000	31.48	15.03	46.51	74.00	-27.49	V	peak
12960.000	28.30	17.82	46.12	74.00	-27.88	V	peak
14520.000	27.23	20.88	48.11	74.00	-25.89	V	peak
15020.000	27.39	21.07	48.46	74.00	-25.54	V	peak
9140.000	32.53	9.50	42.03	74.00	-31.97	H	Peak
10880.000	29.87	14.71	44.58	74.00	-29.42	H	Peak
12960.000	28.76	17.82	46.58	74.00	-27.42	H	Peak
14120.000	26.65	20.65	47.30	74.00	-26.70	H	peak
15100.000	28.15	20.70	48.85	74.00	-25.15	H	peak
17020.000	26.54	23.39	49.93	74.00	-24.07	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Combine with Antenna 1 and Antenna 2

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5180MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7220.000	30.77	8.13	38.90	74.00	-35.10	V	peak
8180.000	30.36	9.55	39.91	74.00	-34.09	V	peak
10420.000	30.03	13.28	43.31	74.00	-30.69	V	peak
12280.000	30.29	15.57	45.86	74.00	-28.14	V	peak
12560.000	28.69	16.49	45.18	74.00	-28.82	V	peak
14500.000	28.44	20.87	49.31	74.00	-24.69	V	peak
8360.000	31.95	9.45	41.40	74.00	-32.60	H	Peak
10480.000	30.90	13.47	44.37	74.00	-29.63	H	Peak
11600.000	30.52	14.82	45.34	74.00	-28.66	H	Peak
12960.000	29.66	17.82	47.48	74.00	-26.52	H	peak
14020.000	28.07	20.59	48.66	74.00	-25.34	H	peak
15780.000	30.86	17.61	48.47	74.00	-25.53	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5200MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6680.000	30.48	7.18	37.66	74.00	-36.34	V	peak
8600.000	31.22	9.32	40.54	74.00	-33.46	V	peak
9860.000	30.66	11.58	42.24	74.00	-31.76	V	peak
10920.000	29.57	14.83	44.40	74.00	-29.60	V	peak
11160.000	29.62	15.01	44.63	74.00	-29.37	V	peak
13900.000	27.54	20.32	47.86	74.00	-26.14	V	peak
7240.000	30.75	8.17	38.92	74.00	-35.08	H	Peak
9080.000	30.99	9.33	40.32	74.00	-33.68	H	Peak
10080.000	30.96	12.23	43.19	74.00	-30.81	H	Peak
10900.000	30.12	14.77	44.89	74.00	-29.11	H	peak
11840.000	30.48	14.71	45.19	74.00	-28.81	H	peak
12420.000	29.58	16.03	45.61	74.00	-28.39	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5240MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7560.000	30.68	8.79	39.47	74.00	-34.53	V	peak
8260.000	30.85	9.51	40.36	74.00	-33.64	V	peak
9300.000	31.01	9.96	40.97	74.00	-33.03	V	peak
9620.000	30.73	10.89	41.62	74.00	-32.38	V	peak
10080.000	30.96	12.23	43.19	74.00	-30.81	V	peak
11580.000	29.79	14.82	44.61	74.00	-29.39	V	peak
6320.000	30.57	6.60	37.17	74.00	-36.83	H	Peak
7540.000	30.41	8.75	39.16	74.00	-34.84	H	Peak
8620.000	30.95	9.31	40.26	74.00	-33.74	H	Peak
9000.000	30.29	9.10	39.39	74.00	-34.61	H	peak
10420.000	29.84	13.28	43.12	74.00	-30.88	H	peak
13080.000	28.69	18.16	46.85	74.00	-27.15	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5260MHz /(CH Low) **Tested by:** Jack Chen
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7000.000	31.33	7.70	39.03	74.00	-34.97	V	peak
8480.000	31.70	9.39	41.09	74.00	-32.91	V	peak
9500.000	30.64	10.54	41.18	74.00	-32.82	V	peak
10400.000	29.86	13.22	43.08	74.00	-30.92	V	peak
11300.000	29.90	14.95	44.85	74.00	-29.15	V	peak
12240.000	29.81	15.43	45.24	74.00	-28.76	V	peak
7220.000	30.87	8.13	39.00	74.00	-35.00	H	Peak
8020.000	30.14	9.64	39.78	74.00	-34.22	H	Peak
8720.000	30.58	9.25	39.83	74.00	-34.17	H	Peak
9280.000	30.95	9.91	40.86	74.00	-33.14	H	peak
10020.000	31.31	12.04	43.35	74.00	-30.65	H	peak
11460.000	29.52	14.88	44.40	74.00	-29.60	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5300MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7620.000	30.82	8.91	39.73	74.00	-34.27	V	peak
7780.000	31.46	9.22	40.68	74.00	-33.32	V	peak
8340.000	31.90	9.46	41.36	74.00	-32.64	V	peak
9380.000	31.14	10.19	41.33	74.00	-32.67	V	peak
10080.000	30.82	12.23	43.05	74.00	-30.95	V	peak
12460.000	30.03	16.16	46.19	74.00	-27.81	V	peak
6940.000	31.58	7.60	39.18	74.00	-34.82	H	Peak
7540.000	30.72	8.75	39.47	74.00	-34.53	H	Peak
8600.000	31.54	9.32	40.86	74.00	-33.14	H	Peak
9380.000	31.06	10.19	41.25	74.00	-32.75	H	peak
11000.000	29.82	15.08	44.90	74.00	-29.10	H	peak
11800.000	30.30	14.73	45.03	74.00	-28.97	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5320MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7380.000	29.56	8.44	38.00	74.00	-36.00	V	peak
8100.000	29.58	9.60	39.18	74.00	-34.82	V	peak
8560.000	31.25	9.34	40.59	74.00	-33.41	V	peak
9420.000	30.10	10.31	40.41	74.00	-33.59	V	peak
10200.000	30.62	12.60	43.22	74.00	-30.78	V	peak
11380.000	29.82	14.91	44.73	74.00	-29.27	V	peak
6320.000	30.84	6.60	37.44	74.00	-36.56	H	Peak
7220.000	31.05	8.13	39.18	74.00	-34.82	H	Peak
7740.000	31.70	9.14	40.84	74.00	-33.16	H	Peak
8240.000	30.87	9.52	40.39	74.00	-33.61	H	peak
8360.000	31.93	9.45	41.38	74.00	-32.62	H	peak
9140.000	31.11	9.50	40.61	74.00	-33.39	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5745MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6820.000	31.31	7.41	38.72	74.00	-35.28	V	peak
7560.000	30.76	8.79	39.55	74.00	-34.45	V	peak
9040.000	30.35	9.22	39.57	74.00	-34.43	V	peak
9900.000	30.58	11.69	42.27	74.00	-31.73	V	peak
11080.000	30.00	15.04	45.04	74.00	-28.96	V	peak
12360.000	29.64	15.83	45.47	74.00	-28.53	V	peak
7740.000	31.56	9.14	40.70	74.00	-33.30	H	Peak
8380.000	31.66	9.44	41.10	74.00	-32.90	H	Peak
9820.000	30.65	11.46	42.11	74.00	-31.89	H	Peak
10060.000	31.23	12.17	43.40	74.00	-30.60	H	peak
11360.000	29.84	14.92	44.76	74.00	-29.24	H	peak
11840.000	30.73	14.71	45.44	74.00	-28.56	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5785MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6960.000	31.55	7.64	39.19	74.00	-34.81	V	peak
7740.000	31.54	9.14	40.68	74.00	-33.32	V	peak
9380.000	30.96	10.19	41.15	74.00	-32.85	V	peak
11000.000	29.74	15.08	44.82	74.00	-29.18	V	peak
11840.000	30.80	14.71	45.51	74.00	-28.49	V	peak
13080.000	28.95	18.16	47.11	74.00	-26.89	V	peak
7000.000	31.70	7.70	39.40	74.00	-34.60	H	Peak
7620.000	30.63	8.91	39.54	74.00	-34.46	H	Peak
8600.000	31.19	9.32	40.51	74.00	-33.49	H	Peak
9960.000	30.73	11.86	42.59	74.00	-31.41	H	peak
10540.000	30.16	13.65	43.81	74.00	-30.19	H	peak
11680.000	30.30	14.78	45.08	74.00	-28.92	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5825MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7360.000	29.18	8.40	37.58	74.00	-36.42	V	peak
8340.000	31.45	9.46	40.91	74.00	-33.09	V	peak
9700.000	29.85	11.12	40.97	74.00	-33.03	V	peak
10540.000	29.49	13.65	43.14	74.00	-30.86	V	peak
12100.000	29.37	14.97	44.34	74.00	-29.66	V	peak
12980.000	29.01	17.88	46.89	74.00	-27.11	V	peak
6940.000	31.85	7.60	39.45	74.00	-34.55	H	Peak
7740.000	31.65	9.14	40.79	74.00	-33.21	H	Peak
8360.000	31.61	9.45	41.06	74.00	-32.94	H	Peak
10080.000	30.75	12.23	42.98	74.00	-31.02	H	peak
11000.000	29.67	15.08	44.75	74.00	-29.25	H	peak
12440.000	29.72	16.10	45.82	74.00	-28.18	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Combine with Antenna 1 and Antenna 2

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5190MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8360.000	32.64	9.45	42.09	74.00	-31.91	V	peak
10080.000	31.89	12.23	44.12	74.00	-29.88	V	peak
10860.000	31.28	14.65	45.93	74.00	-28.07	V	peak
11820.000	32.09	14.72	46.81	74.00	-27.19	V	peak
12440.000	31.29	16.10	47.39	74.00	-26.61	V	peak
13540.000	28.87	19.37	48.24	74.00	-25.76	V	peak
6940.000	33.35	7.60	40.95	74.00	-33.05	H	Peak
8360.000	33.11	9.45	42.56	74.00	-31.44	H	Peak
10300.000	31.87	12.91	44.78	74.00	-29.22	H	Peak
10880.000	30.37	14.71	45.08	74.00	-28.92	H	peak
12960.000	29.76	17.82	47.58	74.00	-26.42	H	peak
17280.000	27.72	23.34	51.06	74.00	-22.94	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5230MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7780.000	32.49	9.22	41.71	74.00	-32.29	V	peak
8480.000	32.74	9.39	42.13	74.00	-31.87	V	peak
10860.000	31.28	14.65	45.93	74.00	-28.07	V	peak
12960.000	28.80	17.82	46.62	74.00	-27.38	V	peak
14520.000	27.23	20.88	48.11	74.00	-25.89	V	peak
15020.000	28.89	21.07	49.96	74.00	-24.04	V	peak
6940.000	32.85	7.60	40.45	74.00	-33.55	H	Peak
8440.000	32.12	9.41	41.53	74.00	-32.47	H	Peak
10420.000	31.32	13.28	44.60	74.00	-29.40	H	Peak
12440.000	29.22	16.10	45.32	74.00	-28.68	H	peak
12960.000	29.76	17.82	47.58	74.00	-26.42	H	peak
14400.000	28.70	20.81	49.51	74.00	-24.49	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5270MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7000.000	32.59	7.70	40.29	74.00	-33.71	V	peak
7780.000	31.49	9.22	40.71	74.00	-33.29	V	peak
9600.000	30.19	10.83	41.02	74.00	-32.98	V	peak
10860.000	29.78	14.65	44.43	74.00	-29.57	V	peak
12540.000	28.04	16.43	44.47	74.00	-29.53	V	peak
15020.000	28.89	21.07	49.96	74.00	-24.04	V	peak
7740.000	33.15	9.14	42.29	74.00	-31.71	H	Peak
8440.000	32.62	9.41	42.03	74.00	-31.97	H	Peak
10320.000	30.45	12.97	43.42	74.00	-30.58	H	Peak
11860.000	30.22	14.70	44.92	74.00	-29.08	H	peak
13060.000	28.15	18.11	46.26	74.00	-27.74	H	peak
14400.000	27.70	20.81	48.51	74.00	-25.49	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5310MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7000.000	32.59	7.70	40.29	74.00	-33.71	V	peak
7780.000	32.99	9.22	42.21	74.00	-31.79	V	peak
8580.000	32.25	9.33	41.58	74.00	-32.42	V	peak
10080.000	30.89	12.23	43.12	74.00	-30.88	V	peak
12960.000	28.30	17.82	46.12	74.00	-27.88	V	peak
14260.000	27.18	20.73	47.91	74.00	-26.09	V	peak
6320.000	31.35	6.60	37.95	74.00	-36.05	H	Peak
7740.000	32.15	9.14	41.29	74.00	-32.71	H	Peak
10320.000	29.45	12.97	42.42	74.00	-31.58	H	Peak
10920.000	28.21	14.83	43.04	74.00	-30.96	H	peak
12600.000	27.74	16.63	44.37	74.00	-29.63	H	peak
13480.000	28.27	19.21	47.48	74.00	-26.52	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5755MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7800.000	33.09	9.26	42.35	74.00	-31.65	V	peak
8500.000	34.21	9.38	43.59	74.00	-30.41	V	peak
10320.000	33.20	12.97	46.17	74.00	-27.83	V	peak
10920.000	31.40	14.83	46.23	74.00	-27.77	V	peak
13580.000	27.77	19.48	47.25	74.00	-26.75	V	peak
14320.000	28.38	20.77	49.15	74.00	-24.85	V	peak
7740.000	32.15	9.14	41.29	74.00	-32.71	H	Peak
8520.000	32.29	9.36	41.65	74.00	-32.35	H	Peak
9920.000	31.87	11.75	43.62	74.00	-30.38	H	Peak
11000.000	29.17	15.08	44.25	74.00	-29.75	H	peak
12200.000	29.89	15.30	45.19	74.00	-28.81	H	peak
14700.000	28.06	20.99	49.05	74.00	-24.95	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5795MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7000.000	35.12	7.70	42.82	74.00	-31.18	V	peak
8420.000	33.37	9.42	42.79	74.00	-31.21	V	peak
10080.000	32.46	12.23	44.69	74.00	-29.31	V	peak
10920.000	30.90	14.83	45.73	74.00	-28.27	V	peak
11200.000	30.63	14.99	45.62	74.00	-28.38	V	peak
12440.000	28.28	16.10	44.38	74.00	-29.62	V	peak
6940.000	33.85	7.60	41.45	74.00	-32.55	H	Peak
8660.000	35.31	9.29	44.60	74.00	-29.40	H	Peak
9280.000	34.76	9.91	44.67	74.00	-29.33	H	Peak
11000.000	30.17	15.08	45.25	74.00	-28.75	H	peak
13920.000	27.24	20.37	47.61	74.00	-26.39	H	peak
16620.000	27.00	20.81	47.81	74.00	-26.19	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Combine with antenna 1 and antenna 2

Test Mode: TX / IEEE 802.11ac 80 / 5210MHz **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7800.000	34.59	9.26	43.85	74.00	-30.15	V	peak
8660.000	33.63	9.29	42.92	74.00	-31.08	V	peak
10180.000	33.31	12.54	45.85	74.00	-28.15	V	peak
11120.000	30.77	15.03	45.80	74.00	-28.20	V	peak
12980.000	28.21	17.88	46.09	74.00	-27.91	V	peak
14320.000	27.88	20.77	48.65	74.00	-25.35	V	peak
7740.000	33.65	9.14	42.79	74.00	-31.21	H	Peak
8520.000	34.29	9.36	43.65	74.00	-30.35	H	Peak
9880.000	32.35	11.63	43.98	74.00	-30.02	H	Peak
10020.000	31.58	12.04	43.62	74.00	-30.38	H	peak
11160.000	28.65	15.01	43.66	74.00	-30.34	H	peak
12200.000	29.89	15.30	45.19	74.00	-28.81	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11ac 80 / 5290MHz **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7580.000	34.54	8.83	43.37	74.00	-30.63	V	peak
8500.000	34.21	9.38	43.59	74.00	-30.41	V	peak
10080.000	32.96	12.23	45.19	74.00	-28.81	V	peak
10920.000	30.90	14.83	45.73	74.00	-28.27	V	peak
14040.000	27.48	20.60	48.08	74.00	-25.92	V	peak
14320.000	28.38	20.77	49.15	74.00	-24.85	V	peak
7680.000	32.67	9.03	41.70	74.00	-32.30	H	Peak
8520.000	33.29	9.36	42.65	74.00	-31.35	H	Peak
9160.000	34.26	9.56	43.82	74.00	-30.18	H	Peak
11820.000	29.94	14.72	44.66	74.00	-29.34	H	peak
12960.000	29.26	17.82	47.08	74.00	-26.92	H	peak
15100.000	29.15	20.70	49.85	74.00	-24.15	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11ac 80 / 5775MHz **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7120.000	34.47	7.93	42.40	74.00	-31.60	V	peak
8500.000	34.71	9.38	44.09	74.00	-29.91	V	peak
10020.000	33.24	12.04	45.28	74.00	-28.72	V	peak
10320.000	33.20	12.97	46.17	74.00	-27.83	V	peak
10920.000	30.90	14.83	45.73	74.00	-28.27	V	peak
12980.000	28.21	17.88	46.09	74.00	-27.91	V	peak
7740.000	32.15	9.14	41.29	74.00	-32.71	H	Peak
9920.000	31.37	11.75	43.12	74.00	-30.88	H	Peak
11820.000	29.94	14.72	44.66	74.00	-29.34	H	Peak
12760.000	29.62	17.16	46.78	74.00	-27.22	H	peak
14400.000	27.20	20.81	48.01	74.00	-25.99	H	peak
15100.000	28.65	20.70	49.35	74.00	-24.65	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

6.7 CONDUCTED UNDESIRABLE EMISSION

6.7.1LIMIT

According to 15.407(b) ,

(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 EIRP of -27 dBm/MHz.

(2) For transmitters operating in the 5.725–5.850 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 EIRP of –17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of –27 dBm/MHz.

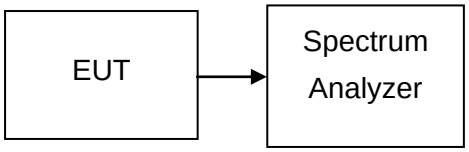
(3) The provisions of §15.205 apply to intentional radiators operating under this section.

6.7.2MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

6.7.3TEST CONFIGURATION



6.7.4TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 1 MHz. The video bandwidth is set to 1 MHz. Peak detection measurements are compared to the average EIRP limit, adjusted for the maximum antenna gain. If necessary, additional average detection measurements are made.

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.

6.7.5TEST RESULTS

No non-compliance noted